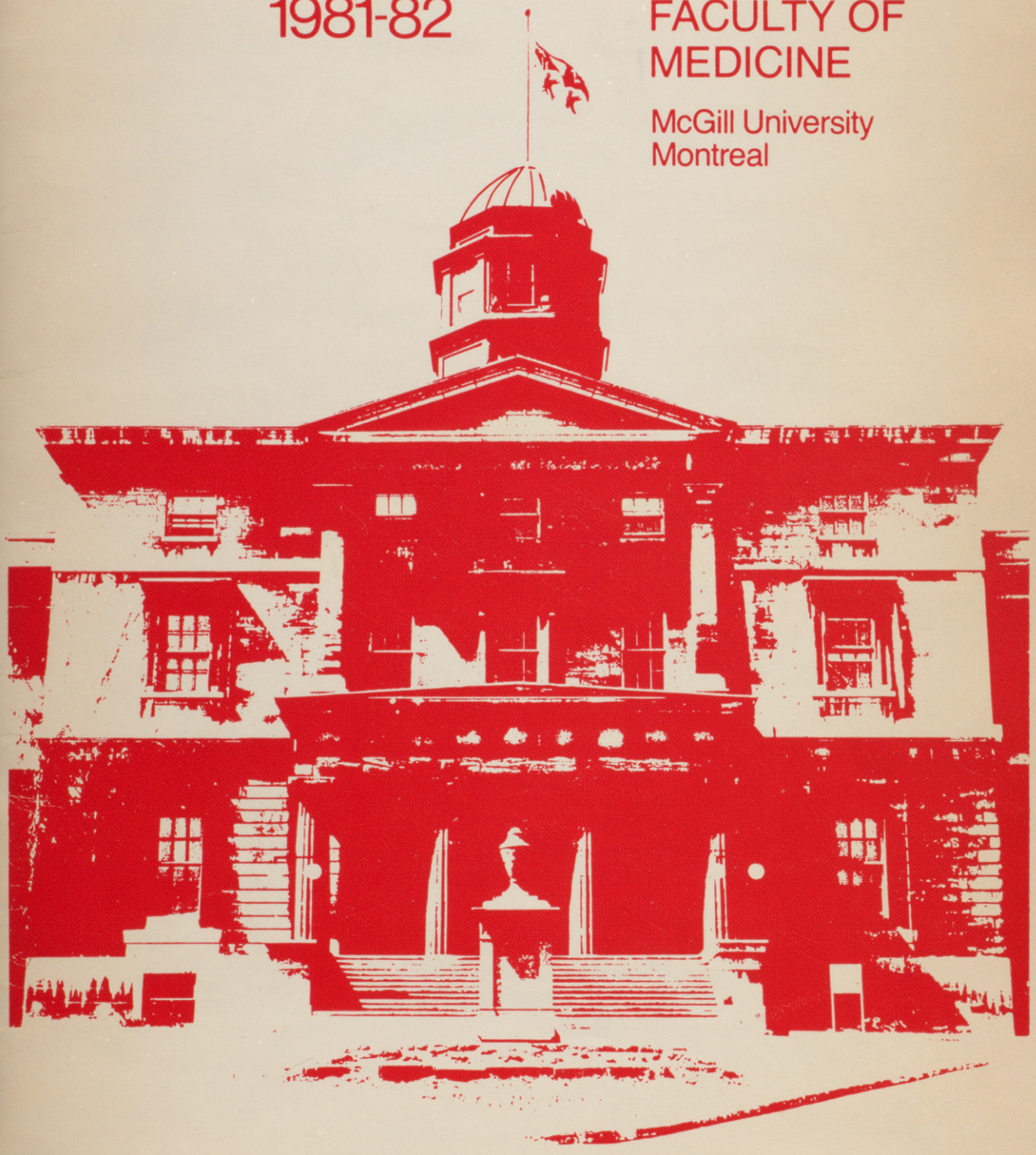
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1981-82

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All courses listed in this announcement will be offered in 1981-82 unless a ● appears left of the course number.

The University reserves the right to make changes without prior notice to the information contained in this publication, including the alteration of various fees, schedules and the revision or cancellation of particular courses

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Pediatrics

Professor and Chairman – K.N. Drummond
Professors – R.P. Bolande, E. Colle, F.C. Fraser, H. Guyda, L. Pinsky, B.I. Pless, C.R. Scriver, G. Watters
Associate Professors – F. Andermann, J.V. Aranda, M. Belmonte, H.F. Brickman, D.K. Clogg, G. Collins, A. Cowan, C. Dupont, J-M Dupuy, N.R. Eade, J. Fong, P.A. Forbes, J.E. Gibbons, F. Glorieux, H. Goldman, B.S. Kaplan, G. Karpati, K. Metrakos, B. Moroz, M.B. Nogrady, E.W. Outerbridge, A. Papageorgiou, S. Pedvis, D. Rosenblatt, N. Steinmetz, H. Strawczynski, R. Usher, G. Weiss, V.M. Whitehead, M.B. Wise
Assistant Professors – G.A. Ahronheim, R. Barr, C. Branchaud, J.S. Charters, L. Chevalier, J. Chiu,

A. Coates, B. Costom, R. deBelle, J-P. De Chadarevian, J.R. Deckelbaum, S.L. Dongier-Montagnac, J.M. Elder, D.L. Esseltine, A. Ford-Jones, L. Ford-Jones, Z. Fox, C. Goodyer, P. Goodyer, L. Hechtman, P. Hechtman, M. Hunter, R. Hutcheon, P. Junger, H. Kahne, P. Kaplan, M. Klein, M. Kramer, I. Kunos, G. Lancaster, L. Laporte, C. Larson, J.L. Leblanc, C. Lejtenyi, W. MacDonald, M. Moffatt, J. Neal, C.H. Pai, S. Pena, M. Preus, E. Reece, P. Riley, B. Rosenblatt, K. Silver, A. Stachewitsch, M. Sternbach, H. Surchin, G. Tannenbaum, H. Tenenhouse, M.J-J. Vekemans, M. Westwood, A. White, F. Wiener, D. Willis, W. Woebler

Lecturers – M. Babineau, J. Belley, A. Bimbi-Kovacs, A. Chan-Yip, M. Chermiak, C. Clow, C. Cummings, E. Delvin, D. Dikranian, P.F. Douyon, A. Feldman, M. Gillin, V. Goldbloom, A. Gordon, C. Gradinger, H. Gradinger, C. Grandbois, J. Gulyas, R. Haber, Y. Israily, R. Jeanneau, M. Kazemi, V. Khediguian, J. Kiteala, P. Lawandi, D. Leduc, F. Lehmann, D. Lorenz, K. Lubkiewicz, H. Lupu, M.E. Malowany, A.J. Markus, R. Martin, D. Munz, P. Neumann, M. Pamukoff, I. Pereira, R. Pincott, J.P. Poirier, S. Quansah, B. Quesnel, D. Rabin, I. Rabin, H. Rich, M. Rochette, T. Rousseau, M. Rozenfeld, A. Schiffrin, P. Senecal, W. Sissons, M.A. Smith, P. Spier, N. Stein, Y. Talbot, B. Vitullo, C. Wang, F. Wiseman, H.O.R. Young, A. Zeliger, R. Zinman

Emeritus Professor – A.S. Ross

Pharmacology and Therapeutics

Professor and Chairman – R. I. Ogilvie

Professors – B.G. Benfey, B. Collier, D. Ecobichon, J. Lowenthal, M. Nickerson, J.B. Richardson, A. Tenenhouse, J.M. Trifaro

Associate Professors – J. Aranda, R. Capek, N.R. Eade, B. Esplin, G. Kunos, P.J. McLeod, R.E. Rangno, B.I. Sasyniuk, D. Varma

Assistant Professors – L. Bayne, B. Hales, M.R. Hamrell, H. Katz, E. Kovacs, J. Kreeft, A. Padjen, M. Quik, B. Robaire, T-Y Ti, M. Warner, E. Zorychta

Lecturer – D.S.R. East

Emeritus Professor – R.L. Stehle

Physiology

Professor and Chairman – K. Krnjevic *(Joseph Morley Drake Professor of Physiology)*

Professors – R.I. Birks, H.K. Chang, T.M.S. Chang, B.A. Cooper, P. Gold, M. Levy, G. Mandl, G. Melvill Jones *(Hosmer Professor of Applied Physiology)*, J. Milic-Emili, C. Polosa, K. Ruf

Associate Professors – M.W. Cohen, R. Dykes, M.M. Frojmovic, L. Glass, P. Kongshavn, W.S. Lapp, M. Mackey, P. Noble, J.S. Outerbridge, P. Ponka, P. Sekelj, A. Wechsler

Assistant Professors – A.S. Chawla, J. Commissiong, E. Cooper, J. Henry, R.E. Kearney, N. Lake, J. Mortola, A. Shrier, T. Trippenbach, D. Watt, P. Weldon

Lecturers – E. Chirito, C. Cole, G. Tolis

Associated Members – C. Chan, R.F.P. Cronin, B. Dubrovsky, S.O. Freedman, H.L. Goldsmith, C.A. Goresky, A. Grassino, M. Katz, G. Kostopoulos, P.T. Macklem, B. Pearson-Murphy, L. Renaud, S. Rossignol, C. Roussos, M.R. Sairam, J.F. Seely, A. Sniderman

Emeritus Professor – F.C. MacIntosh

Psychiatry

Professor and Chairman – M. Dongier

Professors – M.K. Birmingham, B.M. Cormier, F. Ervin, H. Kravitz, H.E. Lehmann, E.P. Lester, A.W. MacLeod, A.M. Mann, H.B.M. Murphy, R.H. Prince, T.L. Sourkes, G. Weiss

Associate Professors – M. Amin, J.V. Ananth, F. Azima, A. Barta, P. Beck, C.H. Cahn, G. Chouinard, H. Davanloo, E.G. Debbane, I.S. Disher, S. Dongier-Montagnac, B.O. Dubrovsky, W.D. Engels, F. Engelsmann, R. Feldman, F. Fenton, B.A. Gibbard, B. Grad, H. Grauer, H.A. Guttman, L. Hechtman, L.G. Hisey, S. Lal, A. Lee, H.L. Levitan, F.W. Lundell, A.S. Macpherson, P.J. Mahoney, D.J. McClure, G. Morgenstern, H.F. Muller, J. Naiman, J.C. Negrete, R. Pittenger, D. Pivnicki, E.G. Poser, R.A. Ramsay, B.M. Robertson, J.J. Sigal, J.R. Unwin, L. Vacaflor, S.N. Young

Assistant Professors – N.R. Aldous, L. Annable, K. Arvanitakis, S. Barza, J. Beaubien, C. Benierakis, S. Bikadoroff, C. Bos, E.J. Brahm, C. Cahill, P. Cheifetz, L. Cumberland, J.F. Davis, L. Demers-Desrosiers, H.A. Evans, S. Gauthier, A. Ghadirian, G.P. Harnois, L. Huapaya, B.R. Hunt, T. Kolivakis, M. Kusalic, D. Kussin, M. Lalinec-Michaud, C. Laroche, D.C. Levin, E.D. Levinson, G. Low, G. MacLean, R.C. Monks, P.V. Nair, E. Naltchayan, S. Packer, J. Paris, J. Pecknold, G. Peterfy, R.B. Rastogi, J. Ruiz-Navarro, P. Senay-Beliveau, F.A. Smith, M.L. Solomon, A.A. Surkis, G.C. Taylor, G. Turcot, N. Wisebord, G. Wiviott, R. Yassa

Lecturers – E.H. Achong, M.P. Adams, P. Assalian, S. Bachneff, C. Barriga, S. Benaroya, D.H. Betts, J.P. Bienvenu, J. Boillat, M. Bond, C.N. Boulais, J.M. Bourque, I. Bradley, R.D. Brown, R.E. Bull, N. Campbell, P.B. Campbell, W.H. Campbell, J. Canfield, L. Carignan, A.J. Carre, P. Chan, C. Cohen, H.L. Cohen, M. Cole, H. Cvejic, D.P. Dastoor, M.E. Davies, N. Dienes, Y. Dion, J.P. Ellman, P. Etienne, R. Fontaine, R.E. Franck, D. Frank, H. Freedman, C. Gaite, J. Garant, J. Gauthier, K. Geagea, C. Golden, P. Goldhamer, D. Goldman, L. Gomez, A. Granich, P. Gregoire, G. Gregoriou, B.Groulx, M. Guerin, E. Gutbrodt, J. Guzder, N. Hariton, A. Hausfather, R. Hirsh, R. Kachanoff, M. Kapuscinska, R.A. Keller, F. Key, R. Khalid, M. Kiely, D.J. Kraus, F.E. Kristof, R. Lake-Richards, R.S. Lakoff, P. Lamoureux, G. Larochelle, R.G. Lemieux, N. Levine, H.P. Malmo, L.M. Martinez, D.E. McPherson, J. Meiten, T. Mendis, A.F. Meszaros, M. Miller, T. Milroy, E.K. Missala, H. Mohelsky, D.P. Mueller,

A.K. Muller, D.P. Nowlis, L. Perreault, S.M. Perzow, C.A. Phillips, G. Pierre-Louis, B. Presser, A. Propst, J.R. Pulman, R.M. Richard-Jodoin, O. Rios, P. Roper, A. Ross-Chouinard, A. Roussos, M. Ruiz-Navarro, M. Samy, R.W. Shepherd, A. Sheppard, S.P. Simons, R.M. Smith, N. Sourial, M. Subak, G. Tahta, F.C. Tcheng-Laroche, R. Tirol, H. Triller, C. Villeneuve, J. Voyer, D. Waiser, J. Waserman, D.J. Wood, D. Zamanzadeh, V. Zicherman, G. Zimmerman, P. Zuardi

Associated Members – T.A. Ban, S.Z. Dudek, V.A. Kral

Emeritus Professors – R.A. Cleghorn, E.D. Wittkower

Allan Memorial Institute of Psychiatry

Associate Professor and Director – B.M. Robertson

Radiation Oncology

Associate Professor and Chairman – C.R. Freeman

Professor – M. Cohen

Associate Professors – J.J. Hazel, T.H. Kim, E.B. Podgorsak, T.N. Roman, E. Tawil

Assistant Professors – S. Chenery, J.F. Guerra, S.M. Lehnert, W. Powlis

Diagnostic Radiology

Professor and Chairman – M.J. Palayew

Professors – R. Ethier, L. Rosenthall, F. Winsberg

Associate Professors – J.H. Gagnon, B. Hale, R.O. Hill, D. Melancon, M.B. Nogrady, V. Sayegh, G.B. Skinner, L.A. Stein

Assistant Professors – M.E. Azouz, G. Bélanger, F.M. Boston, F. Bourdon-Conochie, J. Cassoff, J.M. Dumas, P.J. Fitzgerald, M. Goldenberg, R.E. Hanson, M.J. Herba, B.B. Hyams, S. Jequier, N.S. Khan, P. Lander, A. Lisbona, R. Lisbona, A.M. O'Gorman, M.B. Rosenbloom, R. Satin, J. Toth, R.E. Wilson

Lecturers – V. Adrenyi, A. Arzoumanian, J.D. Chan, M. Desaulniers, A.C. French, A. Glay, P.R. Hassell, R.S. Hidvegi, N. Just, R. Kimoff, A.H. Latour, B. Lewandowski, J. Lussier-Lazaroff, M.S. Nathens, M. O'Donovan, D.R. Patton, T.M. Peters, M. Pinsky, H. Remy, R.L. Slatkoff, T. Spiers, R.L. Wee, G. Whiteman

Surgery

Professor and Chairman – L.D. MacLean

Professors – R.L. Cruess, A.R.C. Dobell, L.G. Hampson, J.E. Miller, N.S. Mitchell, B.M.N. Mount, D.S. Mulder, D.R. Murphy, K.J. MacKinnon, H.J. Scott, H. Shizgal, A.G. Thompson, H.B. Williams

Associate Professors – H.E. Beardmore, N.S. Belliveau, P.E. Blundell, C.E. Brooks, H.C. Brown, R.A. Brown, D. Burke, C.J. Chiu, R.K. Daniel, R. Dykes, D.M. Edward, M.A. Entin, R.L. Estrada, A.G. Fazekas, R.B. Gledhill, F. Glorieux, R.G.W. Goodall, J. Gordon, F. Guttman, R.D. Guttman, E.J. Hinchey, A. Hreno, G.M. Karn, M. Laplante, G.W. Lehman, D.T.W. Lin, R.C. Long, J.K. MacFarlane, R.G. Margolese, A.H. McArdle, J.L. Meakins, E.D. Monaghan, J.R. Moore, D.D. Morehouse, J.E. Morin, D.D. Munro, A.P.H. McLean, W.L. Ogilvy, J.A. Oliver, H.F. Owen, J.D. Palmer, A.R. Poole, E. Reid, N.M. Sheiner, H.R. Shibata, I. Shragovitch, H.H. Sigman, S.C Skoryna, E.J. Tabah, E. Wynands

Assistant Professors – C.F.D. Ackman, A. Ahmed, C.M. Allan, D. Benetar, N.V. Christou, A.M. Cloutier, L.B. Conochie, B. Costello, D. Cunningham, A.M. Daniel, E. Delvin, J.C. Dickison, W. Fish, J.W. Foote, I. Gordon, P. Gordon, F.A.H. Greenwood, A. Grignon, A. Hadjipavlou, S. Inoue, J. Keyserlingk, W. Krause, C.A. Laurin, R.T. Lewis, W.F. Lingard, W.C. Lloyd-Smith, G.G. Mackie, P.J. Marie, B. Marien, W. Mersereau, C.A. Milne, R.V. Moralejo, G.R. Murphy, D. McClure, M.I. Park, W. Rennie, H. Rode, J. Rodrigues, E. Rogala, M.A. Rosman, P.J. Roughley, D.W. Ruddick, G. Schwarz, I. Shanfield, A. Spanier, H.D. Stevens, J.F. Symes, Y. Taguchi, M.P. Thirlwell, J. Trachtenberg, T. Ty, M. van der Rest, M. Wexler, F.M. Wiegand, C.L. Wilson, J.A.S. Wilson

Lecturers – K. Abikar, S. Aronson, M.S. Chughtai, L.P. Coughlin, R. Crepeau, G.A. Daniel, H. Daoud, I.J. de Dominico, H. Dubow, P. Dubravcik, M. Dupre, A.R. Forse, D.B. Forbes, A. Freedman, N. Halpern, L. Heller, H.F. Helmy, S.A. Jacobson, K.W. Kan, M. Kerner, G. Kulczycki, I. Kuzmarov, A. Legare, S.G. MacIsaac, R.A. MacLeod, P. Madore, J. Miller, J.S. Mort, T. Nearing, J.H. Oliver, D.R. Owen, G.J. Pearl, A.S. Popieraitis, E. Said, N.L. Sheppard, T.N. Siller, W. Smith, J.D. Sullivan, C. Sutton, P. Vaktor, D. Wiltshire, S.A. Youssef

Associated Member – C. Chartrand

Emeritus Professors – F.N. Gurd, D.R. Webster

2 GENERAL INFORMATION

The one hundred and forty-ninth session of the Faculty will open on August 31, 1981.

Separate Announcements are available for the School of Physical and Occupational Therapy and the School of Nursing.

2.1 BUILDINGS

McIntyre Medical Sciences Building

This 15 storey building, completed in 1965, contains the administrative offices of the Faculty of Medicine, the Medical Library, the Osler Library of

the History of Medicine, the Departments of Biochemistry, Humanities and Social Studies in Medicine, Pharmacology and Therapeutics, Physiology, the McIntyre Animal Centre and a number of special research units (e.g. Anesthesia Research, Aviation Medical Research, Biomedical Engineering, Artificial Cells and Organs Research Centre, and the McGill Cancer Centre.)

Strathcona Anatomy and Dentistry Building

This building, opened in 1911 and one of the architectural splendors of the main campus, houses the Department of Anatomy, the Faculty of Dentistry and the Protein and Polypeptide Laboratory of the Department of Medicine.

Lyman Duff Medical Sciences Building

Opened for use in October 1924, the building is situated on the north-east corner of University Street and Pine Avenue, adjacent to the Montreal Neurological Hospital and the Royal Victoria Hospital. It is occupied by the Departments of Epidemiology and Health, Microbiology and Immunology, and Pathology and the Meakins-Christie Laboratory. The building has extensive facilities for teaching, research and diagnosis.

The Montreal Neurological Institute

The Montreal Neurological Hospital and Institute are housed in an eight-storey building, situated on University property adjacent to the Pathology Building and the Royal Victoria Hospital. The Institute was opened on September 27, 1934 and as the cornerstone states is "Dedicated to relief of sickness and pain and to the study of Neurology". The McConnell Wing was opened in 1953, doubling both the clinical and laboratory space. A nine-storey addition, the Penfield Pavilion, was officially opened in September 1978.

Allan Memorial Institute

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building was reconstructed to permit the establishment of a fifty-bed unit, together with extensive research laboratories, and was officially opened on July 12, 1944.

In 1946 the first day-hospital in the world was opened at the Institute and in 1953 a fifty-bed wing was added.

A research and training building was added by McGill University in 1963, providing one of the most extensive and modern research areas.

Both undergraduate and postgraduate teaching are carried on at the Institute.

Donner Building

The Donner Building for Medical Research, adjacent to the Strathcona Anatomy and Dentistry Building, was completed in September 1948 through the generosity of the late William D. Donner of Philadelphia.

The building houses the Maxwell Lauterman Laboratories for Surgical Research, and also provides facilities for other types of medical and surgical investigation.

Lady Meredith House

Situated at 1110 Pine Avenue West, this building currently houses the Centre for Medical Education, Continuing Medical Education, Area Personnel Officer and Financial Counsellor for the Faculty of Medicine and the Montreal Joint Hospital Institute.

Charles Meredith House

Situated at 1130 Pine Avenue West, this building houses the Mass Spectrometry Unit, the Clinical Section of the McGill Cancer Centre and the McGill Clinical Scholars' Program.

2.2 HOSPITALS

McGill University Teaching Hospitals

There are five McGill University Teaching Hospitals. By agreement and tradition the administration, medical staff and scientific personnel of these institutions are closely integrated with McGill University and form the basis for the clinical departments of the Faculty of Medicine:

Royal Victoria Hospital
Montreal General Hospital
Montreal Children's Hospital
Montreal Neurological Hospital
Sir Mortimer B. Davis – Jewish General Hospital

The Royal Victoria Hospital comprises the following units under one administration: 1. Main Pavilion 2. Medical Pavilion 3. Surgical Pavilion 4. Ross Memorial Pavilion 5. Women's Pavilion 6. Allan Memorial Institute

The total bed complement is 873. Admissions total about 24,000 a year and there are more than 390,000 ambulatory visits annually. The resident and intern staff numbers 223.

The Royal Victoria Hospital was granted its Charter in 1887. The Pathological Institute and the Women's Pavilion of the Royal Victoria Hospital were opened in 1926 and the Allan Memorial Institute (Psychiatric Pavilion) became part of the hospital complex in the 1940's.

The Montreal General Hospital has a bed complement of 822. In a typical year, there are approximately 20,000 admissions and 250,000 consultations in the Emergency and Outpatient Departments. The Resident and Intern staff numbers 275. "The Montreal General" was founded in 1821 and its record in clinical teaching

is one of the longest in North America. Students were first received in 1823, in what was the first medical school in Canada. This school agreed to form the Faculty of Medicine in 1829.

The present Hospital was opened in 1955. In addition, a five-storey Research Building was opened on Hospital grounds in late 1973.

The Montreal Children's Hospital located on Tupper Street near the Atwater Metro Station, has 275 beds and, in a typical year, admits 12,000 patients. The Ambulatory Services have approximately 208,000 visits, 88,000 in Emergency and 120,000 in the clinics. The hospital admits newborn infants, children and adolescents with all kinds of medical and surgical problems.

The 58 bed Alexandra Pavilion (formerly the Alexandra Hospital) is now part of The Montreal Children's Hospital and is a centre for diagnostic assessment and treatment programs for retarded children and other programs in developmental medicine.

An active teaching program is maintained for the medical students and for the 125 interns and residents. There are also teaching programs for nursing students and other health professionals. The McGill University-Montreal Children's Hospital Research Institute sponsors research and postgraduate education in disciplines related to problems of childhood.

Sir Mortimer B. Davis – Jewish General Hospital is an acute care hospital of 590 beds to which 18,000 patients are admitted in a typical year. During this same period it provided 276,464 consultations in its emergency and outpatient departments. In addition to extensive research activities that are housed in modern new buildings, the hospital supports a large geographic full-time staff to carry out its teaching responsibilities to 119 interns and residents as well as undergraduate students.

Founded in 1934, the hospital grew from 150 beds to its present size in a series of expansion programs which also saw the establishment of tertiary care programs in neurosciences and vascular surgery. The Lady Davis Institute for Medical Research and the Institute of Community and Family Psychiatry were established in 1968.

Specialty Teaching Hospitals

The following hospitals are affiliated with the McGill University Faculty of Medicine. All the departments and services of these hospitals participate in teaching and research in a single specialty:

Douglas Hospital
Montreal Chest Hospital Centre

The Douglas Hospital was opened in 1890 as a centre for the specialized care of mental illness of short and long term duration. There are facilities for children, adolescents, adults and elderly patients. Services are offered as part of an integrated network of psychiatric services, in cooperation with various departments of psychiatry of general hospitals. There is a comprehensive community psychiatric program offered to residents of Ville Emard, Ville LaSalle, Verdun and Pointe St. Charles. There are approximately 1350 admissions per year to the 980 beds of the hospital; and nearly 50,000 out-patients contacts per year.

The hospital provides clinical instruction and training for residents in psychiatry and in pediatrics, as well as medical students and students of various paramedical disciplines. Experience can also be obtained in research through the activities of the Douglas Hospital Research Centre.

The Montreal Chest Hospital Centre is a McGill teaching, training and research specialty hospital, for all diseases of the chest, excluding the heart and great vessels. It operates on an out-patient and in-patient basis including a large general chest and tuberculosis clinic. The hospital contains 124 beds and its facilities include operating rooms, general, special and research laboratories, fully equipped pulmonary function laboratories, physiotherapy and all para-medical allied services.

The hospital provides some specialized programs and services which include a home care program, adult cystic fibrosis clinic, anti-smoking program, out-patient rehabilitation program for respiratory insufficiency, centre for phage typing and identification of atypical mycobacteria for the Province of Québec, Revised Comprehensive Tuberculosis Program and special emphasis on the present challenge of lung cancer. It maintains an active research program and residency training program.

Hospitals Affiliated with McGill University

The following hospitals have been approved and have contracted with McGill University for participation in teaching and research in one or more departments and services:

The Queen Elizabeth Hospital of Montreal is a 272 bed acute general hospital located in the western section of Montreal in the community of Notre Dame de Grace with specialty resources organized in the following departments: Medicine, Surgery, Gynecology, Pathology, Anesthesia, Psychiatry and Family Medicine. The Emergency and Out-Patient Department is a very active area serving approximately 100,000 patients per year.

St. Mary's Hospital Centre is an acute care general hospital with 414 adult beds and 65 bassinets. The hospital is recognized as a high risk obstetrical centre, has a progressive Family Medicine

Centre and provides a number of diversified services, including renal dialysis and oncology. Approximately 15,000 patient admissions occur annually, while about 185,000 outpatients are treated in a typical year. There are active intern and residency training programs in the major disciplines.

Lakeshore General Hospital
Reddy Memorial Hospital
Shriner's Hospital For Crippled Children

2.3 CENTRES

Artificial Cells and Organs Research Centre

This centre concentrates on interdisciplinary research using novel approaches in clinically useful artificial cells and organs. The present research emphasis is on artificial cells, artificial kidneys, artificial liver, detoxifiers, enzyme replacement therapy, enzyme engineering and biomaterials. The members of this centre come from different specialties in McGill: ranging from the basic departments of physiology, chemistry, and biomedical engineering to clinical divisions in the McGill teaching hospitals (Royal Victoria, Montreal General, Montreal Children's and the Douglas Hospital). The Central Office is in the McIntyre Medical Sciences Building.

Centre for Human Genetics

The Centre for Human Genetics provides a home base for scientists and geneticists working on genetical problems related to human beings, in University hospitals and research laboratories throughout the city. Administratively responsible to the Faculties of Science, Graduate Studies and Medicine, its purpose is to coordinate teaching in human genetics, develop teaching and consultative programs in areas where genetics is underrepresented, encourage communication and collaboration between genetics units and promote, wherever possible, the progress of genetical research and its application to health care. The Central Office is in the Stewart Biology Building.

McGill Cancer Centre

Putting discoveries to work for patients is the main purpose of the McGill Cancer Centre. Created in January 1978, as a result of a bequest from the estate of Sir Mortimer B. Davis, the Centre coordinates the work of researchers, physicians, epidemiologists and teachers throughout McGill University and its teaching hospitals. The clinical division coordinates patient care and sponsors clinical research connected with cancer. The basic science division is a unit of full-time investigators conducting research on molecular and immunological aspects of cancer. The epidemiology division is involved in studies evaluating the cause of cancer and the quality of care given to cancer patients. The Central Office is in the McIntyre Medical Sciences Building.

2.4 LIBRARIES

Medical Library

Life Sciences Area Librarian – FRANCES K. GROEN
Assistant Area Librarian – DAVID S. CRAWFORD.

The Medical Library is located on the second, third and fourth floors of the McIntyre Medical Sciences Building; the entrance is on the third floor.

The staff of the Public Services Department is available to assist users in locating necessary information through the card catalogue and the numerous abstracting and indexing services to which the library subscribes. The Library offers a full range of data bases searchable by computer. Chief amongst these is the U.S. National Library of Medicine's MEDLINE and its associated data bases such as TOXLINE, CANCERLIT, and CANCERPROJ. Other relevant data bases provided by the Canada Institute of Scientific and Technical Information, and the Lockheed and Systems Development Corporation are also accessible on-line. These include BIOSIS, PSYCHOLOGICAL ABSTRACTS-ON-LINE, and ERIC.

One of the strengths of the Library is its journal collection. Of the more than 161,000 items held, over 110,000 are bound journal volumes and over 2,000 journal titles are currently received. The book collection is particularly outstanding in the area of ophthalmology, due in large measure to gifts from the late Dr. Casey A. Wood. Another strong feature of the collections is the German periodicals with full sets of many important German language publications. Library collections are developed in all fields of clinical medicine and research. Social aspects of medicine, medical anthropology, and medical sociology are also covered in the Library's buying program.

A Learning Resources Centre is housed on the second floor of the Medical Library. This Centre provides terminals for use in computer assisted instruction as well as video cassettes and slide-tape shows. Audio-visual materials in various formats are regularly purchased for this growing collection.

The Library is open to all who need to use its collections. Borrowing privileges are given to McGill faculty, staff and graduate students, all students in the Faculties of Medicine and Dentistry and to undergraduates whose coursework requires its use. An extensive interlibrary loan service is provided to all affiliated and partially affiliated teaching hospitals. Borrowing privileges are also extended to members of the health professions in the community.

The Library is open from mid-September to mid-June from 8:30 a.m. to midnight Monday to Thursday, from 8:30 a.m. to 10:00 p.m. on Friday, from 10:00 a.m. to 6:00 p.m. on Saturday and 1:00 p.m. to 5:00 p.m. on Sunday. During the summer months

and at Christmas, the hours are restricted but notification of these changes is posted well in advance.

Osler Library of the History of Medicine

The two-storey wing extending out from the third and fourth floors of the McIntyre Medical Sciences Building contains the Osler Library, devoted to the history of medicine. Besides library offices and stack space, the Library consists of two reading rooms, (the Wellcome Camera, accessible through the main Reading area of the Medical Library on the third floor and the Osler Room beyond the Camera), the W.W. Francis Wing and the H. Rocke Robertson Rare Book Room.

The collection, consisting of about 30,000 volumes in the history of medicine and its sciences and a large quantity of manuscripts, has, as a nucleus, the 8,000 volumes bequeathed to McGill by one of its most famous pupils and teachers, Sir William Osler. It is especially this portion which is rich in 15th, 16th, 17th and 18th century medical books. In addition, books printed before 1850 have been transferred from the Medical Library to this collection. The rest of the collection has been purchased by the Osler Library itself, especially since 1957, when a generous grant from the Wellcome Trust made active growth of the Library possible. The Library is constantly adding to the collection, especially current work in the history of medicine.

All books in the collection are available for use within the Library and the majority of them are available on loan. Undergraduates and all interested persons may use the Library. For the holdings of the Library, users are urged to consult the card catalogue, and the book catalogue entitled *Bibliotheca Osleriana,* both in the Wellcome Camera. At present, the collection is not completely catalogued anywhere else in the University.

2.5 MEDICAL SOCIETIES

McGill Medical Students' Society

The Society is an association of all registered medical students. Acting through its elected council and various Faculty committees, the Society performs a number of functions:

1) To represent medical students' ideas, concerns and problems to the Faculty of Medicine, the government, and the public at large.
2) To promote interaction among medical students through both the Québec and Canadian Federations of Medical Students' Societies.
3) To attempt to advance new forms of learning to meet with the desires of the students.
4) To collaborate with the Students' Societies of Nursing, Physical & Occupational Therapy and Dentistry in running the "Annex", the social centre.
5) To regulate all student sporting and social events within the Faculty.
6) To publish the McGill Medical Journal.
7) To generally attempt to provide the resources and personnel to meet student needs and wishes as they arise.

The M.S.S. has members on many faculty committees, including the Curriculum Committee and the Admissions Committee. Details of all the activities are easily available from the M.S.S. Office and it is hoped that all students will participate in the Society's activities.

L'Association des Etudiants en Médecine est une association de tous les étudiants inscrits en médecine. Représentée par son conseil élu et par les divers comités de la faculté, L'Association accomplit les fonctions suivantes:

1) représente les idées des étudiants, leurs soucis et leurs problèmes à la faculté de médecine, au gouvernement et au public en général,
2) facilite la communication des étudiants en médecine par le biais des Fédérations des Associations des étudiants en médécine du Québec et du Canada,
3) essaye de développer de nouveaux cours qui rencontreront les désirs des étudiants,
4) collaborer avec les Associations des étudiants en nursing, en ergothérapie et réadapation, et en art dentaire dans la direction de "l'Annexe", notre centre social,
5) s'occupe de régler toutes les réunions sportives ou sociales des étudiants en médecine,
6) publie le journal médical de McGill
7) de façon générale, essaye de fournir toutes les ressources et le personnel afin de recontrer les besoins et les désirs des étudiants qui se font ressentir.

L'Association des étudiants en médecine compte des membres sur plusieurs comités de la faculté y compris le "Curriculum Committee" et le "Admissions Committee". Les détails de toutes nos activités peuvent facilement être obtenus du bureau de l'association et nous souhaitons ardemment que tous les étudiants participent à nos activités.

Osler Society

The Osler Society, named for McGill Medicine's most illustrious graduate, is a gathering of students interested in the history, literature and cultural anthropology of medicine. Sir William himself demonstrated that such an interest, evidenced by the book collection he donated to McGill's Osler Library, is compatible with the highest degree of clinical skill.

The Society's principal activity is an irregularly scheduled series of presentations by students on topics in the medical humanities. Wine, cheese and conversation follow. In the Spring, a lecture by a distinguished guest precedes the annual Osler Banquet, an occasion marked by traditional ceremonies. There is no formal membership, interested persons may attend the functions.

3 SCHOLARSHIPS, BURSARIES, PRIZES, MEDALS AND LOAN FUNDS

For details of scholarships, bursaries and loan funds open to students in all faculties, see the *Undergraduate Scholarships and Awards Announcement.*

Students in the Faculty of Medicine who demonstrate outstanding performance are recognized through the awarding of prizes, medals and University Scholarships. Receipt of an award is permanently recorded on the transcript of each recipient.

In view of the high level of academic performance already achieved by students entering the Faculty of Medicine, scholarships and bursaries are generally awarded by the Faculty on the basis of good standing and financial need. Students requiring financial aid should complete the financial aid forms available from the Student Aid office, 3637 Peel Street, Montreal.

3.1 SCHOLARSHIPS AND BURSARIES

DR. MAUDE E. SEYMOUR ABBOTT SCHOLARSHIPS – from a fund of $10,000, established in 1938 by an anonymous donation in honour of the late Maude E. Seymour Abbott, B.A., M.D., F.R.C.P.(C), LL.D.(McGill), to commemorate her distinguished work in connection with the history of Canadian medicine, the Sir William Osler Pathological Collection and her outstanding research in congenital cardiac disease.

The revenue of this fund provides scholarships awarded by the University to undergraduates in the Faculty of Medicine. Preference is given to women. Awards vary according to need. Further information may be obtained from the Dean's Office, Faculty of Medicine.

J.H.B. ALLAN SCHOLARSHIP – available to undergraduate students in any year.

SIR EDWARD W. BEATTY MEMORIAL SCHOLARSHIPS FOR MEDICAL STUDENTS – income from a bequest of $100,000 from the late Dr. Henry Albert Beatty provides scholarships for undergraduate and graduate students in the Faculty of Medicine. For students who hold or are working towards the McGill M.D., C.M. the award may be held at any approved institution in Canada or abroad. For other qualified students the award must be held at McGill. The holder is expected to devote the year of tenure either to research or to some form of special training excluding the normal training towards the M.D., C.M. and excluding any of the years of residency training required in the Diploma courses.

BELLAM MEMORIAL BURSARIES – from a bequest of $20,000 from the estate of the late C.F. Bellam and awarded on the basis of financial need to students from Stanstead County, Québec.

DR. BEN BENJAMIN MEMORIAL BURSARY – established by his sisters in memory of the late Ben Benjamin, B.A., M.D., C.M., Lecturer in the Department of Pediatrics. Awarded on high academic standing and financial need.

JOSEPH ISRAEL BENNETT BURSARY – a bequest from the late Joseph Israel Bennett provides an annual bursary for a deserving student.

MAX BINZ SCHOLARSHIP – from the bequest of the late Max Binz. $1,000 is set aside annually for scholarships in the Faculty of Medicine.

ELFRIC DREW BROWN BURSARY – established in 1973 by a bequest from the late Elfric D. Brown, M.D., C.M. The income provides bursaries to help deserving students in the Faculty of Medicine.

CIBA-GEIGY SCHOLARSHIP – a $1500 scholarship awarded annually by CIBA-GEIGY Canada Limited to the student whose work in the Summer Research Bursary Program is judged to be the best by the Faculty Scholarships Committee.

BEVERLEY COONER BURSARY – established by the family and friends of the late Beverley Cooner to assist a deserving student. Awarded with the approval of the National Council of Jewish Women on the basis of financial need and academic standing.

BOWMAN CORNING CROWELL AWARD – established in 1979 by a bequest from Frances B. Crowell. To be awarded to an undergraduate medical student engaged in research in Pathology.

JAMES H. CUMMINGS SCHOLARSHIPS – two or more entrance scholarships bequeathed by the late James H. Cummings are awarded at the discretion of the Faculty of Medicine.

ANNIE DIAMOND BURSARIES – established in 1969 for medical students with financial need.

JAMES ECCLES SCHOLARSHIP – established in memory of Mr. James Eccles, a member of the Board of Governors. $500 is awarded for high academic standing to a student entering the final year. Awarded by the University Scholarships Committee.

SAMUEL EIDLOW MEMORIAL BURSARY FUND – established for worthy medical undergraduate students with financial need.

CHANCELLOR FERRIER MEMORIAL BURSARY – established by Mrs. Herbert V. Lacey in memory of her great-grandfather, Senator James Ferrier,

Chancellor of McGill from 1884 to 1889. Awarded on the basis of academic standing and financial need, with preference to students from the State of Wyoming.

DR. E.M. FISHER MEMORIAL SCHOLARSHIP – available to any medical undergraduate student.

SIMON AND ROSALIE HALPERN MEMORIAL SCHOLARSHIP – established by the late Dr. Fanny G. Halpern in memory of her parents. The sum of $400 is available to students of the Roman Catholic or Jewish faith who have distinguished academic standing and financial need. The recipient in any one session may re-apply for the following year.

WALTER J. HOARE MEMORIAL SCHOLARSHIP – endowed by the late Dr. Charles W. Hoare, a graduate of McGill University, in memory of his son, Walter J. Hoare, who was killed in World War I. Preference is given to graduates of the Collegiate Institutes of the counties of Essex, Kent and Lambton entering the Faculty of Medicine.

KEITH HUTCHISON MEMORIAL SCHOLARSHIPS – two or more scholarships, in memory of the late Dr. Keith Hutchison. Awarded on the basis of distinguished academic standing and need; tenable in any year. The recipient in any session may re-apply for the following year.

IVES SCHOLARSHIP – established in 1967 by a bequest of the late David Fraser Murray, M.D., C.M., 1924. Awarded on the basis of financial need with preference given to students from Nova Scotia, New Brunswick or Prince Edward Island.

CAMPBELL KEENAN MEMORIAL SCHOLARSHIP – established by Miss Charlotte Mildred Hagar in memory of the late Dr. Campbell B. Keenan. Tenable in the second, third, or fourth year; and awarded on the basis of distinguished academic standing and financial need to an applicant who intends to enter surgical practice. The recipient in any session may re-apply for the following year.

JAMES GRAHAME KER AND FREDERICK K. PETRIE MEMORIAL SCHOLARSHIP – awarded to a student from Eastern Ontario (Counties of Dundas, Stormont, Glengarry, Grenville, Carleton, Russell and Prescott) or from Montreal. Based upon distinguished academic standing and financial need; tenable in second year and may be renewed.

KINCH MEMORIAL BURSARY – established by Miss Dia Joyce in memory of Mr. and Mrs. C.H. Kinch to assist medical undergraduates.

THE FREDERICK PENTON LOFTUS LANE BURSARY OR SCHOLARSHIP FUND – established in 1979 by a bequest from Esther M.E. Lane. The income provides one or more bursaries or scholarships for Canadian medical undergraduates.

DR. CLARKE K. McLEOD MEMORIAL SCHOLARSHIP FUND – established in 1979 by a bequest from Dr. Clarke K. McLeod, M.D., C.M., 1927 to provide scholarships for undergraduate medical students.

JAMES O. MEADOWS AND MARIA MEADOWS AWARDS – income from a bequest of $200,000 from the late Dame Maria Cowan Meadows provides awards for undergraduate and graduate students in the Faculty of Medicine who are engaged in research. Preference is given to candidates working in cancer research but worthy candidates in other areas of medical or surgical research are also considered. Application is made to the Dean of the Faculty of Medicine.

MERCK, SHARP & DOHME OF CANADA LIMITED AWARD – an award established by Merck, Sharp & Dohme of Canada Limited for undergraduates in the Faculty of Medicine to support research in the field of therapeutics.

NEW YORK LIFE INSURANCE COMPANY MEDICAL STUDENT SCHOLARSHIP PROGRAM – one $3,000 entrance award will be made annually to assist qualified students to complete their medical studies. Candidates must be citizens of the United States or Canada; relatives of officers of NYLIC are not eligible. Selection of the recipient is made by the medical school and annual renewal will be based upon satisfactory performance as determined by the medical school. The person to whom the Scholarship is awarded shall be known as a New York Life Insurance Company Medical Scholar.

SAMUEL ROSENFELD BURSARY – established by Mrs. Ida Rosenfeld Letovsky in memory of her late husband, Mr. Samuel Rosenfeld, to support worthy undergraduate medical students.

REUBEN ROSS MEMORIAL AWARD – the income from a bequest of the late Reuben Ross provides an annual award to medical students in financial need.

SOLOMON DAVID SACKS BURSARY – established in 1973 by Mr. and Mrs. Issie Sacks in memory of their son, to assist a deserving medical student in financial need.

DAVID E. AND RONNIE SCHOUELA MEMORIAL SCHOLARSHIP – established by the family in 1980 to assist a first year medical student. Awarded either on the basis of financial need or for participation in the Summer Research Program.

ROSE SCHWARZ – HELEN MARCUS BURSARY – established by the family and friends of the late Rose Schwarz and the late Helen Marcus. To

assist a needy, deserving student engaged in summer work in cancer research. Awarded with the approval of the National Council of Jewish Women.

ROBERT SHARWOOD MEMORIAL SCHOLARSHIP – tenable in any year of the undergraduate course in Medicine. It is awarded on the basis of distinguished academic standing and financial need. The recipient in any one session may re-apply for the following year.

THE ALLAN JAY SOLOMON AWARD – a fund of $2,000 established in 1977 by family and friends in memory of the late Allan Jay Solomon, M.D., C.M. The income provides an annual award tenable in any year; awarded for distinguished academic standing and financial need.

BRUCE SMITH BURSARY FUND – from a bequest by the late Dr. Bruce Stewart Smith to enable worthy students with financial need to complete medical training at McGill University.

FREDERICK SMITH MEMORIAL SCHOLARSHIP – established in memory of Dr. Frederick Smith, Dean of the Faculty of Medicine, 1947-49. $250 is awarded to a student with high academic standing entering the second year. Awarded by the University Scholarships Committee upon the recommendation of the Faculty of Medicine Scholarships Committee.

ROBERT ROLF STRUTHERS BURSARY – the income from a bequest of the late Robert Rolf Struthers (Medicine 1918) provides support for a needy Canadian student entering third year Medicine.

DR. MILTON C. AND NINA E. WILSON AWARD – established in 1970 by a bequest from the late Dr. Milton C. Wilson. The annual income provides support for undergraduate or postgraduate students in the Faculty of Medicine who are in financial need.

DR. JOSEPH TANZMAN AWARD – a bequest establishing an award in honour of Dr. Joseph Tanzman, M.D., C.M., 1927. Preference is given to a medical student from New Brunswick but if there is no such candidate the award may be given to any deserving student in the Faculty of Science. Awarded by the Scholarships Committee of the Faculty of Medicine or the Faculty of Science.

UPJOHN ACHIEVEMENT AWARD – a $150 prize and a plaque to be awarded to the student whose paper given at the Annual Student Research Day is judged by a Faculty panel to be the best in terms of scientific merit. The name of the recipient will be inscribed on a plaque which will be held by the Faculty.

UNIVERSITY SCHOLARSHIPS. – See the *General Announcement*

3.2 PRIZES

MR. AND MRS. J.A. BESNER PRIZE – a prize of approximately $425 is awarded to the student obtaining the highest aggregate standing in Phase II of the medical undergraduate course.

H.S. BIRKETT MEMORIAL PRIZE IN OTOLARYNGOLOGY – established by Miss Winifred Birkett in memory of her father, the late Dr. H.S. Birkett, formerly Professor of Otolaryngology. A prize of $375 is given to the student who has shown outstanding performance in Otolaryngology. In addition, the winner is presented with a specially bound volume containing a biographical sketch of Dr. Birkett, a photograph and an address by Dr. Birkett on the History of Medicine in the Province of Québec.

JAMES Q. BLISS ANNUAL BOOK AWARD – awarded to the student in the First Year who obtains the highest standing in Physiology.

JOSEPH MORLEY DRAKE PRIZE – founded by the late Joseph Morley Drake, M.D., a prize of $250 is awarded to the most outstanding student in Pathology.

ROBERT FORSYTH PRIZE – bequeathed by the late Miss Jeanie Forsyth, a prize of $175 is awarded annually to the graduating student who has shown particular ability in all branches of Surgery.

CHARLES E. FROSST MEDICAL PRIZE AND BRONZE MEDAL – a bronze medal and prize of $500 are awarded annually to the student who has shown most promise in the field of Pharmacology.

ELIZABETH ANN MUNRO GORDON MEDAL AND PRIZE – established in memory of Dr. Elizabeth Ann Gordon. Awarded to the member of the graduating class, with preference to a woman student, who in the opinion of the Faculty presents in every respect the highest qualifications to practise the profession.

HARRY S. GROSS MEMORIAL PRIZE – bequeathed by the late Mrs. Esther B. Gross in memory of her late husband, Harry S. Gross, D.D.S.. 1913, M.D., C.M.. 1921., a prize of $100 is awarded to the student in Phase II with the highest standing in Surgery.

JOSEPH HILS PRIZE – founded by the late Dr. Joseph Hils, of Woonsocket, R.I., a prize of $150 is awarded to the student obtaining the highest standing in Pharmacology in Phase IB.

CAMPBELL HOWARD PRIZE IN CLINICAL MEDICINE – founded by Mrs. Campbell Howard in memory of the late Dr. Campbell P. Howard, Professor of Medicine at McGill, a prize of $100 is awarded to the student who has shown the most

consistent excellence in written case reports in Phase II Clinical Medicine.

F. SLATER JACKSON PRIZE – founded by Mr. and Mrs. H.F. Jackson in memory of their son, the late F. Slater Jackson, M.D., a prize of $125 is awarded to the student with the highest standing in Histology.

CAMPBELL KEENAN MEMORIAL PRIZE IN CLINICAL SURGERY – established by Miss Charlotte Mildred Hagar in memory of the late Dr. Campbell B. Keenan a prize of $100 is awarded to the graduating student who has shown the highest proficiency in Clinical Surgery. The winner of the Robert Forsyth Prize in Surgery is ineligible.

CHESTER MACNAGHTEN PRIZES – an essay prize open to students in all faculties. Information may be obtained from the Scholarships Office, Registrar's Office.

MONTREAL CHILDREN'S HOSPITAL CUSHING MEMORIAL PRIZE – a prize of $100 is awarded to the student with the highest standing in Pediatrics.

PSYCHIATRY PRIZE – a prize of $150 is awarded on the recommendation of the Department of Psychiatry to the student who has shown the most promise in this field.

SAMUEL ROSENFELD PRIZE – a prize of $100 is awarded to the student with the highest standing in Medical Microbiology.

MONA BRONFMAN SHECKMAN PRIZE – a prize of $225 is awarded to the student with the highest academic standing in Psychiatry.

ALEXANDER D. STEWART PRIZE – founded by the late W. Grant Stewart (Arts 1885, Medicine, 1888) in memory of his brother the late Alexander D. Stewart (Medicine, 1888). A prize of $250 is awarded to the member of the graduating class who, in the opinion of the Faculty, presents in every respect the highest qualifications to practise the profession.

J. FRANCIS WILLIAMS PRIZE IN MEDICINE AND CLINICAL MEDICINE – founded by the late J. Francis Williams, M.D., a prize of $500 is awarded to the student obtaining the highest standing in Medicine in Phase III of the medical curriculum.

3.3 MEDALS

WALTER CHIPMAN GOLD MEDAL – founded by the late Max Strean in honour of Dr. W.W. Chipman. It is awarded to the student whose performance in Obstetrics and Gynecology throughout the medical curriculum is considered to be outstanding.

HOLMES GOLD MEDAL – founded by the Medical Faculty in 1865, in memory of the late Andrew Holmes, M.D., LL.D., sometime Dean of the Faculty. It is awarded to the student graduating with the highest aggregate standing in the entire medical curriculum.

SUTHERLAND GOLD MEDAL – founded in 1878 by the late Mrs. Sutherland in memory of her husband, William Sutherland, M.D., formerly Professor of Chemistry in the Faculty. It is awarded to the student obtaining the highest aggregate standing in Phase I of the medical undergraduate curriculum.

WOOD GOLD MEDAL – endowed by Casey A. Wood, M.D., LL.D. in memory of his grandfather, Thomas Smith Wood. It is awarded for the most outstanding clinical performance achieved by a student in Phase III. The winner of the Holmes Medal is not eligible.

3.4 LOAN FUNDS

MAUDE ABBOTT MEMORIAL LOAN FUND – established by the Federation of Medical Women of Canada. Any woman medical student, first year intern or graduate student may apply to the Secretariat, Federation of Medical Women of Canada, Box 8244, Ottawa, Ontario K1G 3H7.

BORIGHT LOAN FUND – established in 1963 by a bequest from the late George H. Boright to provide loans to deserving medical students.*

BOSWELL JAMES LOAN FUND – established in 1943 by Dr. A. Boswell James to provide loans for undergraduates and graduates.*

DAVID M. CALDWELL STUDENT LOAN FUND – established in 1973 by a bequest from the late David M. Caldwell M.D. 1919, to assist students in the Faculty of Medicine, with preference to American students.*

ALEC AND SYLVIA DOLLIN LOAN FUND – established in 1965 by Mr. Alec Dollin to provide loans for medical students.*

KELLOGG LOAN FUND – established by the Kellogg Foundation. It provides loans up to a maximum of the tuition fees in any one year. Available to students in good standing and with financial need. Application and regulations are as for other loan funds of the University.*

LACEY LOAN FUND – established in 1962 by a donation from Mrs. Herbert Van Devanter Lacey, Cheyenne, Wyoming, primarily to aid medical students from the State of Wyoming. It may however be extended to others in accordance with the following priorities: medical students from the State of

*Apply to Student Aid Office.

Wyoming; dental students from the State of Wyoming; medical students from other states of the U.S.A.; medical students from other countries. Loans are not to exceed $700 per year.

GEORGE W. MERCK MEMORIAL LOAN FUND – established in 1960 by the Merck Company Foundation to provide loans for undergraduate medical students, interns and residents.

GERTRUDE MUDGE MEMORIAL STUDENT AID FUND – established in 1958 by donations from students, graduates, and staff in memory of the late Gertrude Mudge, for many years Assistant Secretary of the Faculty of Medicine. Loans shall not exceed the fees for the year.*

WESTON FAY VOLBERG JR. MEMORIAL LOAN FUND – established in 1956 by classmates of the late Weston Fay Volberg, Jr., M.D., C.M. 1953. It is available to medical students.*

*Apply to Student Aid Office.

4 CURRICULA, COURSES OF STUDY AND PROGRAMS

4.1 *PROGRAMS IN MEDICINE*

Application for Admission

Admissions Telephone Number: (514) 392-4232

Application for admission to the Faculty of Medicine must be made on the special application form which can be obtained from the Office of the Associate Dean (Admissions), Faculty of Medicine, Room 609, McIntyre Medical Sciences Building. Applications for September 1982 will be available as of August 1981.

All applicants to the Four Year, Five Year and Advanced Standing Programs will be asked to complete a full application. The deadlines for receipt of applications are December 1, 1981 for applicants who are non-Québec residents, and March 1, 1982 for Québec residents. These deadlines also apply for the receipt of all supporting documents which must include transcripts, M.C.A.T. scores (four year program only), autobiographical letter and letters of reference. Students currently attending McGill whose place of home residence is outside Québec are considered non-Québec residents. Conversely, Québec residents attending universities outside the province are still considered Québec residents. The application must be accompanied by a non-refundable fee of fifteen dollars ($15.00 in Canadian funds) in the form of a cheque or money order payable to McGill University. Applicants currently registered at McGill University are not required to pay the $15.00 fee.

ONLY OFFICIAL TRANSCRIPTS WILL BE ACCEPTED BY THIS OFFICE. ALL MATERIALS SUBMITTED TO THIS FACULTY BECOME THE PROPERTY OF THIS OFFICE AND CANNOT BE RETURNED.

Although the great majority of the entering class is below the age of 27, older applicants will be considered.

There is a total of 160 students in the first-year class.

Accepted students for the 1980 entering class had the following credentials: mean G.P.A. (Based on a 4 point scale) 3.6, mean M.C.A.T. scores: Biology 9.22, Chemistry 9.90, Physics 9.59, Science Problems 9.62, Skills Analysis Reading 9.31, Skills Analysis Quantitative 9.25.

REQUIREMENTS FOR ENTRANCE

Four-Year Program in Medicine

Applicants must be in the final year of a course of study leading to the Bachelor's Degree at a recognized college or university. All successful candidates must be in receipt of the Bachelor's Degree prior to registration in the first-year of the medical curriculum.

This Faculty does not admit part-time students.

Scientific Requirements:

One full year course in each of the following:

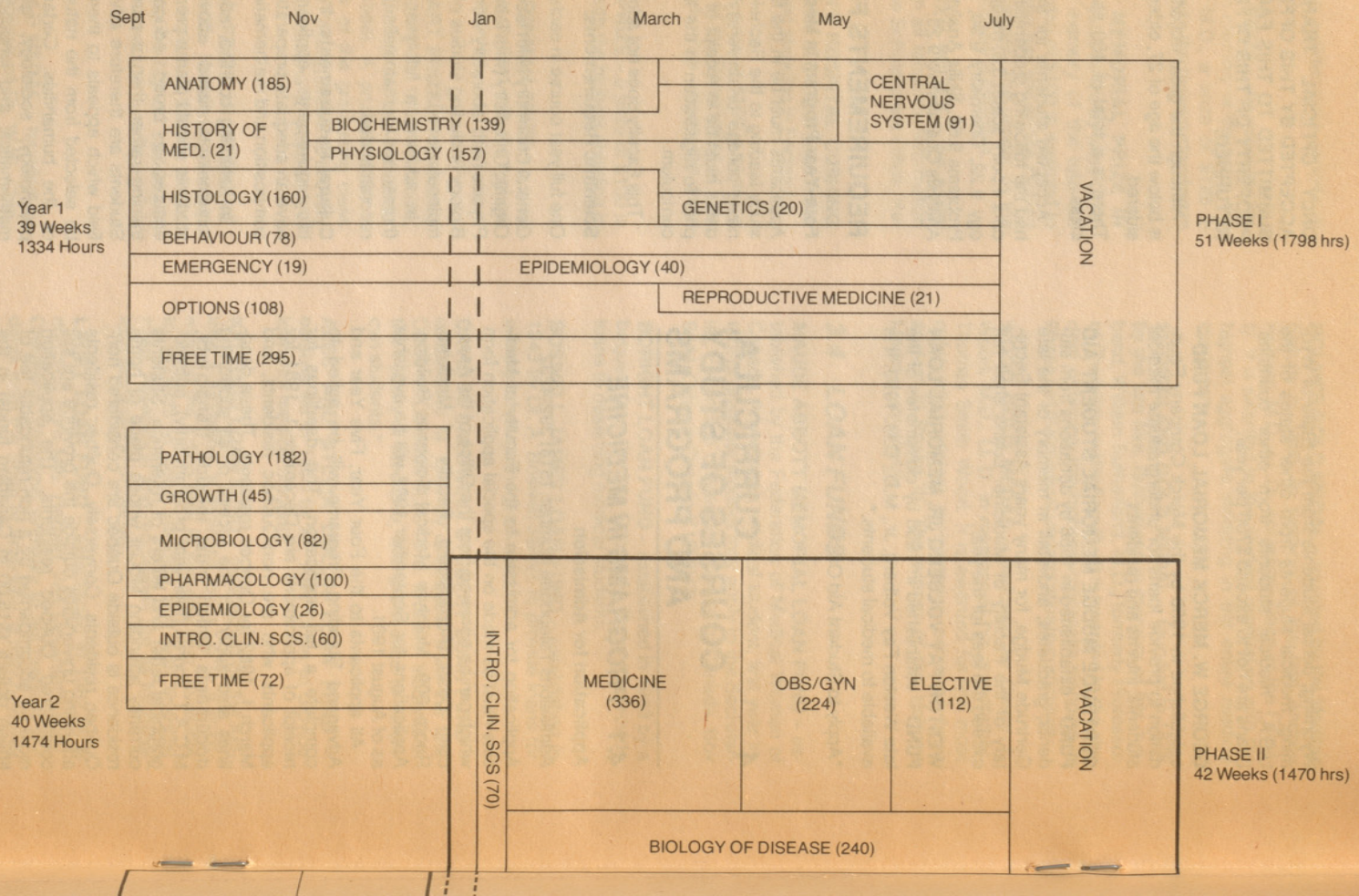
General Chemistry (with laboratory work),
Organic Chemistry (with laboratory work),
Physics (with laboratory work),
Biology (including studies of biology at the cell and molecular level).

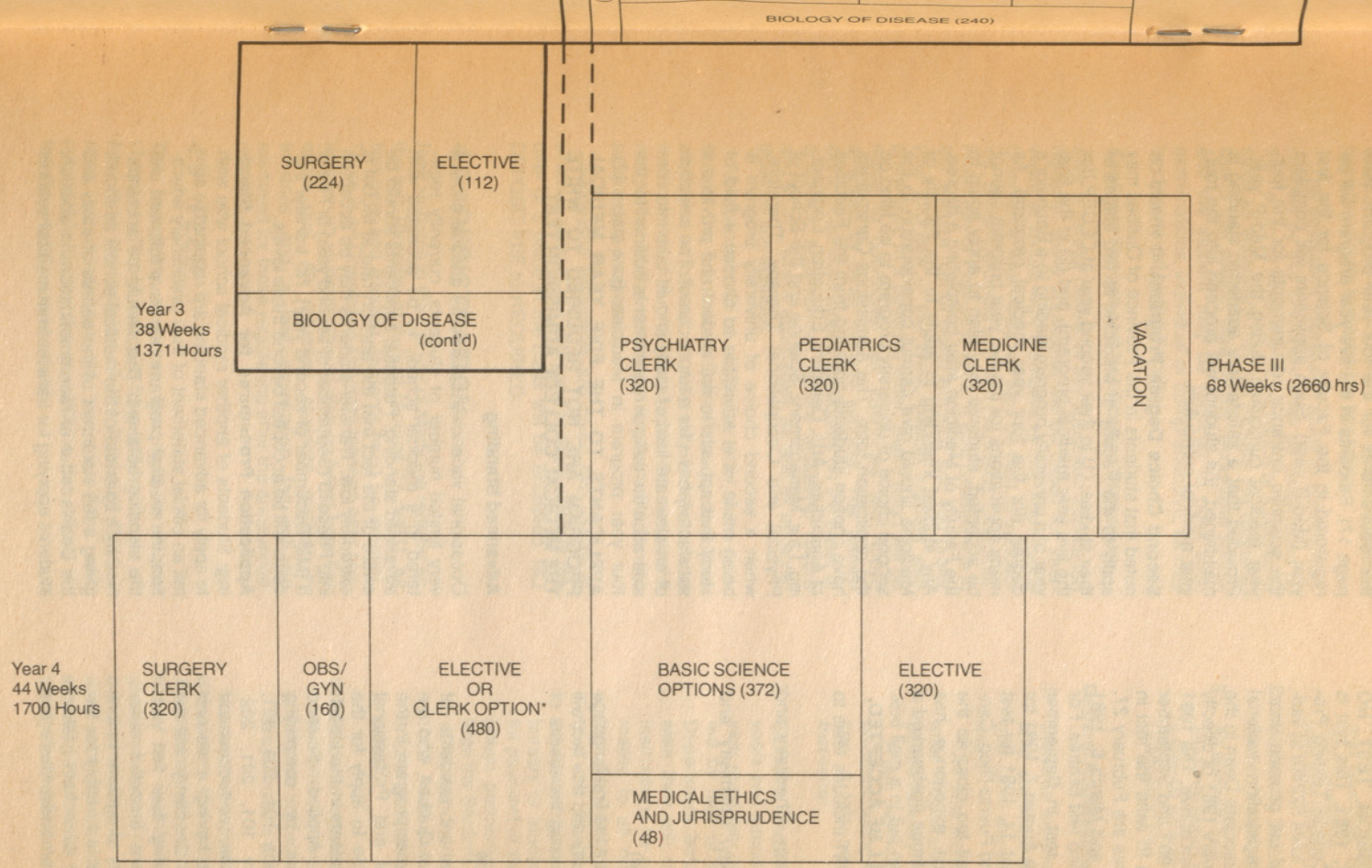
In addition, a full year course in Physiology (human and/or mammalian) with laboratory work is recommended.

Cultural Requirements: In addition to the scientific requirements, applicants are encouraged to have an adequate preparation in English literature, composition and mathematics.

In selecting courses, additional to the specific requirements listed above, intending medical students should plan a premedical program which ensures a broad education and intellectual training rather than a purely factual curriculum. Students are therefore advised to select a major field which appeals to them; this major field may be selected from the natural or social sciences, or the humanities. Certain subjects, such as psychology, sociology, genetics, anthropology, mathematics, and languages, have been found valuable in medical study and may be included as electives if the curriculum in the major field permits.

McGILL FACULTY OF MEDICINE CURRICULUM





Hours calculated on basis of 35 hours/week in PHASES I & II and in Basic Science Options of Phase III; 40 hours/week in PHASE III Clerkships and Electives. Hours and weeks do not include vacations and holidays.

*Students must select either 160 hours of clerk options and 320 hours of electives or vice versa.

(revised Nov. '80)

Medical College Admission Test: ALL APPLICANTS TO THE FOUR-YEAR MEDICAL PROGRAM ARE REQUIRED TO TAKE THE NEW MEDICAL COLLEGE ADMISSION TEST NO LATER THAN DECEMBER 1, 1981. This test is conducted by the American College Testing Program (P.O. Box 414, Iowa City, Iowa 52240) at various centres in the spring and fall of each year. Applicants can obtain the registration material either from the Office of the Associate Dean in the Faculty of Medicine as of February 1981 or directly from the Iowa City address given above. The 1981 MCAT test dates are April 4, 1981 and September 12, 1981. For those who plan to write the test in April 1981, registration deadlines are February 27, 1981 for foreign test centres, and March 6, 1981 for U.S., Canada and Puerto Rico test centres. For those who plan to write the test in September 1981, registration deadlines are August 7, 1981 for foreign test centres and August 14, 1981 for test centres in the U.S., Canada, and Puerto Rico. Candidates are warned not to mail too close to the postmark deadline since past experience has shown that packets are sometimes postmarked a day or two after they have been put in a mail box. **NO LATE APPLICATIONS WILL BE ACCEPTED.**

It should be noted that the MCAT includes tests to measure:

1. Science Knowledge (Biology, Chemistry and Physics)
2. Science Problems (Biology, Chemistry and Physics)
3. Skills Analysis (Reading)
4. Skills Analysis (Quantitative)

It is realized that English is not the first language of many applicants to the Faculty and this fact will be taken into account in assessing the results of this test.

Five-Year Program in Medicine

Canadian citizens and permanent residents of Canada living in the Province of Québec, who are currently completing the two-year program in the Québec Colleges of General and Professional Education (CEGEP), are eligible to apply for the Five-year program. CEGEP students in the Health Sciences and Pure and Applied Science programs fulfull requirements by completing Mathematics 103, 203; Physics 101, 201, 301; Biology 301, 401; Chemistry 101, 201, 202. Although it is not a pre-requisite, we recommend Chemistry 302. Students not having a second semester course in Organic Chemistry will be required to complete this during their first year (Med-P). Individuals who have attended other technical schools or university programs before attending CEGEP are not eligible to apply for the five-year program; students who have taken collegial or pre-medical programs elsewhere are also ineligible to apply. Students who complete their CEGEP studies and register as undergraduates in a non-medical program must complete the requirements for the four-year program. (see page 17). Students in the five-year program will be registered in the Faculty of Science for the first year (Med-P year). Such applicants will complete the scientific entrance requirements for the four-year medical curriculum during the Med-P year. Provided that a satisfactory academic standing is maintained, the student will proceed into the four-year medical curriculum.

Second Choice Degree Programs: It should be noted that students in the Province of Québec may apply to the Faculty of Medicine at two stages of their studies: (1) in their second year at CEGEP (for the five year medical program), and (2) in the final year of a university program leading to a Bachelor's degree (for the four year medical program). As many applications for the five year program cannot be accepted, students may plan to apply again to the Faculty of Medicine after completing a degree. Any student intending to apply to the Faculty of Medicine should give careful consideration to the second choice of university program to be filled on the application form. The Admissions Committees have chosen students applying from the Faculties of Agriculture, Arts, Dentistry, Education, Engineering, Law, Management, Science and the School of Physical and Occupational Therapy. Therefore, when a second choice of university program is being made, it is advisable to choose a field of study that appeals to the student and provides a satisfactory basis for a future career. The selection of an alternate field of study should take into consideration the cultural requirements outlined for the four year program in Medicine (see page 17). **APPLICANTS TO THE FIVE YEAR MEDICAL PROGRAM ARE NOT REQUIRED TO WRITE THE MEDICAL COLLEGE ADMISSION TEST.**

Advanced Standing

Occasional vacancies created by attrition allow a very limited number of students, currently registered in a medical school, to be accepted with advanced standing. Potential applicants should be aware of the fact that the attrition rate at McGill is extremely low. Transfer students may be accepted into Phase IB (September of second year) or Phase II (Mid-December of second year). No transfer students will be accepted beyond these levels.

Application Procedures for Advanced Standing: Students of another medical school who wish to apply for advanced standing are required to submit an official statement of their preliminary education, the medical program they have followed and the standing obtained. This should be accompanied by a calendar of the medical school attended, giving a full statement of the course of study and the Dean's letter of recommendation. In addition, students applying for transfer from medical schools

outside of Canada and the United States must have passed the Medical Sciences Knowledge Profile examination. It is the responsibility of the applicant to arrange to write this examination and have the results forwarded to this office.

The equivalent courses of study in schools recognized by this University shall be determined by the Faculty of Medicine. Acceptance of a course of study as equivalent may not include the examination in that subject held by the recognized school and the student may be required to pass such examinations, individual or comprehensive, as may be determined by this Faculty.

Applicant Review and Notification Procedure

After a careful review of the submitted application material, some applicants will be called for interviews at McGill with members of the Admissions Committee. Interviews will also be held in Vancouver, British Columbia and San Francisco, California, in January or February, 1982. If your residence is in the western half of North America and you prefer your interview in the West, please indicate your preference in a covering letter. Every effort will be made to coordinate our interviews with those arranged by other medical schools. The Admissions Committee judges applicants on the basis of academic achievement (entire academic record and MCAT. where applicable), as well as personal qualities and attitudes.

All applicants will be notified by letter of the decision of the Admissions Committee. Inasmuch as admission is offered considerably in advance of matriculation, it is provisional upon the successful completion of the remaining requirements for the programs in progress.

Successful applicants are given two weeks in which to reply to the letter and to state whether the offer of a place in the class will be accepted. NO DEPOSIT FEE IS REQUIRED.

4.2 REGISTRATION

New students in the Faculty of Medicine register on the last Thursday of August (August 27, 1981). All first year and transfer students must be present. There is an Orientation Program planned after registration so students should plan on being here the entire day. All returning students register in advance and a late registration fee will be assessed for those registering after the announced deadlines.

4.3 FEES

The University reserves the right to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are refundable under the conditions described in the *General Announcement.*

University Fees

1. Four-year program in Medicine (all years): $719.00 plus Student Services fee of $95.00 and Students' Societies fees of $34.00. Foreign Students: $1,500.00 plus Student Services and Students' Societies fees.

2. Repeating Students
 Students repeating a year pay full fees.

3. *Ad eundem* Fee
 Students entering any year above the first pay a special *ad eundem* fee of $10.00
 Graduation Fee – $20.00.

General Regulations

1. Students entering the University for the first time are required to pay their fees either by mail or in person at the Accounting Department.
 The first instalment is due within 10 days after registration, the second instalment before January 15, 1982.
 A late payment fee of $10.00 is charged for payment during the first 30 days after registration. A late payment of $25.00 is charged thereafter.

2. Students who have completed one or more years and intend to register in the succeeding year must pay one half of the total sessional fee by mail or in person to the Accounting Department before August 20, 1981, otherwise they will not be permitted to register. Instructions for paying fees in advance will be mailed to all returning students, either with their Reports of Sessional Standing or a short time later. Students who have been notified by the University of the award of a scholarship, bursary or student loan and who require this for payment of the first instalment of fees must obtain permission to delay payment of fees from the Student Aid Office, McGill University.
 The second instalment is due January 15, 1982. A late payment fee as mentioned above is charged for payment after the specified dates.

3. Students registering late must pay their fees at the time of registration, failing which they become subject to the late payment fee and the provisions of the following paragraph:

As soon as possible after the prescribed dates for the payment of fees the Chief Accountant will send to the Registrar's Office a list of the registered students who have not paid their fees. Transcripts of record, diplomas and permission to re-register will be withheld until such time as tuition fees as well as outstanding residence fees, library fines or other charges are paid.

Application for Graduation Fee

Applications by students who expect to graduate at the Spring Convocation must be filed by April 1st of each year and by those who expect to graduate at the Fall Convocation by October 15th of each year. An application form will be mailed to each eligible student and must be returned to the Registrar's Office together with the application for graduation fee of $20.00 by the appropriate date listed above. It is the students' responsibility to ensure that their names are included in the graduation list.

All fees are payable in Canadian currency.

For further information and for a list of special fees see the *General Announcement*

Microscopes

The Faculty provides all students in first and second year with a first quality binocular microscope. In this way, all students have the same experience in microscopy as it applies to histology, microbiology, pathology and microhistology. A small fee is charged for the rental of microscopes to cover general repairs and maintenance costs.

Board and Residence

For details of board and residence and an estimate of expenses, see the *General Announcement.*

Health Service and Student Services

For details of the Health Service, medical examinations and other student services see the *General Announcement.*

4.4 COURSES FOR THE DEGREE OF M.D., C.M.

A minimum of five years of professional training is required by the University as a qualification for the independent practice of Medicine. This includes:

four years of medical study in the University leading to the degree of M.D., C.M.; and one year of internship in an approved hospital.

While the Faculty's administration exercises a general supervision of arrangements for internship applications, the Faculty of Medicine does not assume the primary responsibility for providing an internship for any student.

EDUCATIONAL GOALS OF THE CURRICULUM IN THE FACULTY OF MEDICINE

Some of the major goals of the curriculum are:

1. To give students core knowledge and skills required for the practice of medicine.
2. To enable the student to use basic sciences in clinical medicine.
3. To humanize the students' approach to medicine.
4. To provide flexibility of content.

DESCRIPTIVE OUTLINE OF THE CURRICULUM IN THE FACULTY OF MEDICINE

The content of the McGill curriculum may be considered under four major headings – CORE, OPTIONS, ELECTIVES, and SCHEDULED FREE TIME.

CORE is that portion of the curriculum compulsory for all students. Core content provides the minimal preparation of a student for medical practice, and it must be supplemented by options and electives. Core includes basic biological sciences, behavioural and social sciences and clinical disciplines. It is taught in all four years of the curriculum.

OPTIONS may be thought of as a defined list of courses, determined by Faculty, from which students must select a specified number according to the rules and regulations of Faculty. Options differ from electives in two respects. Options are courses specifically proposed and offered through Faculty for specific educational purposes and the number of options is limited.

ELECTIVES differ from options in the following ways: the students, not the Faculty, are primarily responsible for selecting the courses; the choice of electives is very large and may be taken in non-university settings. The only major restriction is that the elective must be related to medicine. Electives are seen as an opportunity for a student to either pursue a major interest in depth or to participate in a variety of experiences that might help the student decide on ultimate career objectives. Electives are taken during Phases II and III.

SCHEDULED FREE TIME is synonymous with "scheduled student learning time". It is a vital part of the timetable as "learning time" is an essential complement to "teaching time". Most of the scheduled free time at McGill occurs in Phase I.

In summary, the time allotment for each portion of the curriculum is as follows:

CORE	92 weeks	57%
OPTIONS	35 weeks	22%
ELECTIVES	24 weeks	15%
SCHEDULED FREE TIME	10 weeks	6%
TOTAL	161 weeks	100%

PHASES

The four years of the curriculum are divided into three phases:

PHASE I Beginning of Year I to mid December of Year 2 (51 weeks)

PHASE II	Beginning mid December of Year 2 to end of December of Year 3 (42 weeks)
PHASE III	Beginning of January of Year 3 to end of May of Year 4 (68 weeks)

PHASE I

Phase I comprises all of first year and the first 16 weeks of second year. It is devoted largely to instruction in the Basic Biological Sciences. Normal Biology is the main theme of the first year (Anatomy and Embryology, Histology, Physiology, Biochemistry, and Central Nervous System). Behavioural Science and Epidemiology are the core non-biological sciences given in Phase I. In addition, short courses in Emergency Medicine, Human Genetics, Reproductive Medicine and the History of Medicine are offered in the first year.

As indicated in the timetable, first year students are required to take 108 hours of optional courses. Students may take credit courses from any of the faculties at McGill University. First year options may also be chosen from courses offered for credit by any of the universities in Montreal. Every student must take six option credits in the first year.

Abnormal Biology is introduced in the first 16 weeks of second year (Pathology, Microbiology and Pharmacology). A course in Growth and Development is also given during this period.

PHASE II

Phase II consists of three main parts:

1. The bulk of the Introduction to Clinical Sciences Course.
2. The pre-clerkship clinical rotations in Medicine (12 weeks), Surgery (8 weeks), Obstetrics and Gynecology (8 weeks).
3. The Biology of Disease Course, predominantly a course in Pathophysiology, is given concurrently (two half days per week) with the clinical rotations.

In addition, Phase II contains an 8-week elective block.

PHASE III

Phase III begins in January of the third year and concludes at the end of fourth year. The 68 weeks of the phase are divided as follows:

Clerkship		36 weeks
Clerkship Options	20 weeks	4-8 weeks
Electives		12-16 weeks
Basic Science Options		12 weeks

The clinical clerk occupies a well-defined position as a regular member of a clinical teaching unit, with increased responsibility for patient care. The clerkship is designed to permit the student to consolidate the clinical skills acquired in Phase I and II and to assume direct responsibility for patient care.

The clinical clerkship is structured to satisfy the demands of most licensing bodies. Students may, if they desire, enter directly into straight internships as the first year of their specialty training.

4.5 CURRICULUM REVIEW

The Faculty realizes the need for constant review of the medical curriculum that is necessitated by:

a) Rapid advances in scientific knowledge.
b) Changes in the role of the medical school in the community and changes in the delivery of health care.
c) Application of new principles of educational science to medical education.

Therefore a permanent student-faculty Curriculum Committee is charged with the task of reviewing the curriculum and recommending any modifications of time allocation or content to Faculty.

4.6 EVALUATION SYSTEM

The Evaluation System is under constant review by the Faculty Evaluation Committee. Any of the rules and regulations published here or in previous calendars must not be considered inviolate; the Faculty reserves the right to change any of these rules and regulations at any time, although in general such changes will not come into effect in the middle of a session.

Students are reminded that cheating in an examination, including examinations administered by the Faculty on behalf of external agencies, is considered a serious offence that could lead to expulsion from the University.

Major Courses: Formal student evaluation by examination and by other means (term papers, tutorial assessments of performance in small groups or on clinical services) will be conducted in the following courses: Anatomy (Embryology), Histology, Physiology, Biochemistry, Central Nervous System, Pathology, Microbiology, Pharmacology, Epidemiology, Biology of Disease, Phase II Surgery, Phase II Medicine, Phase II Obstetrics and Gynecology, Phase III Pediatrics, Phase III Psychiatry, Phase III Surgery, Phase III Medicine, Phase III Obstetrics and Gynecology, all Phase III Clerk Options and Fourth Year Basic Science Options.

Minor Courses: Evidence of satisfactory completion before being considered for promotion to the next phase is required for the following courses: Behaviour, History of Medicine, Emergency Medicine, Human Genetics, Reproductive Medicine, Introduction to Clinical Sciences, Growth, First Year Options and all Electives.

For the purposes of evaluation the four-year curriculum is broken down into the following sessions. At the end of each session the Student Promotions Committee meets to determine whether or not a student may proceed to the next session.

Evaluation Session I
The beginning of Year 1 until the end of Year 1

Evaluation Session II
The beginning of Year 2 until the end of Phase 1B

Evaluation Session III
The beginning of Phase 11 until the end of Phase 1.1

Evaluation Session IV
The beginning of Phase III until the end of Phase III

Evaluation Procedures: A student is not allowed supplemental evaluations in more than two major courses and one minor course in one evaluation session. A student who fails more than two major courses, or more than two major courses and one minor course, will be required to either repeat the session or retire from the Faculty, as decided by the Faculty Committee on Student Promotions. The entire academic record of a student who fails one or two major examinations will be automatically reviewed by the Promotions Committee who may choose from three options: (a) permit supplemental examination(s), (b) require repetition of the entire phase or, (c) under circumstances of professional incompetence require withdrawal from the Faculty. A failure in the supplemental evaluation of a major course will require the student to repeat the Evaluation Session. Failure in a major subject during a repeat Evaluation session will result in automatic retirement from the Faculty. The evaluation results of remedial clinical rotations will be recorded in the official transcripts as supplemental examinations, and will be considered as such for purposes of promotion.

No evaluation, examination mark, etc., shall by considered final until passed by the Promotions Committee.

The Faculty reserves the right to require the withdrawal of any student at any time, who is considered incompetent by the Promotions Committee.

4.7 REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

1) Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty years of age and of good moral character.

2) Candidates must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than nine months each in this University or in some other university, college or school of medicine, approved by this University.

3) No one is permitted to become a candidate for the degree who has not attended at least two full academic years at this University.

4) Every candidate for the degree must have passed all the required evaluations in the subjects comprising the Medical Course.

Intern Matching Services

A matching service is a clearing house designed to help final year medical students obtain the internships of their choice and to help hospitals and internship program directors obtain the students of their choice. It provides an orderly method for students to decide where to intern and for hospitals to decide which applicants they wish to enroll. For both students and program directors, it removes the factors that generate unfair pressures and premature decisions.

The matching service acts as the student's agent on the instructions embodied in the student's confidential list of all the internships for which he or she has applied, ranked in order of preference. Similarly, the matching service acts as the hospital's agent on the instructions embodied in its confidential list of all the students who have applied, ranked in order of the hospital's preference.

In the past few years final year students at McGill have participated in three different matching services. The Québec Intern Matching Service sponsored by the Professional Corporation of Physicians of Québec matches applicants from Québec universities seeking mixed or rotating internships in Québec hospitals. The Canadian Intern Matching Service matches applicants for straight, mixed or rotating internships in over 120 training programs across Canada. The National Intern Matching Service matches applicants to American internship programs.

An explanation of these matching services is provided to third-year medical students in the spring.

4.8 REQUIREMENTS FOR LICENCE

Candidates accepted for admission are reminded that it is their personal responsibility to ensure that they fulfill all the licencing requirements of the country in which they intend to practice medicine. A university degree does not confer the right to practise. In each province of Canada, in each one of the United States and in all other countries the authority to licence is vested in a licencing body which has its own special laws and requirements. In many cases a special standard of general education is insisted upon before *beginning* the study of medicine. One of the requirements in several provinces

is that the entrance qualifications of the student must be registered with the provincial licencing body for five years before a licence to practise can be obtained.

Candidates accepted for admission should therefore communicate as soon as possible with the licencing body of the country in which they intend to practise and obtain from that licencing body the necessary instructions.

Candidates wishing to practise medicine in the Province of Québec must have a working knowledge of French before they will be granted a permanent licence. To demonstrate this capability, a candidate will normally be required to pass an examination set by the Office de la langue française, unless he or she can show that three years of instruction in a French post-primary school have been completed. The Professional Corporation will require this proof of attendance or of successful completion of the Office examination.

Information on the testing program of the Office may be obtained by writing to: Office de la langue française, S.R.M.E.O.P., Case Postale 316, 800 square Victoria, Montréal, PQ., H4Z 9Z9. Telephone 873-8361.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards as follows:

ALBERTA – Registrar, 9901 - 108th St., Edmonton, AB T5K 1G9
BRITISH COLUMBIA – Registrar, 1807 West 10th Ave., Vancouver, BC V6J 2A9
MANITOBA – Registrar, 1410-155 Carlton St., Winnipeg, MB R3C 3H8.
NEW BRUNSWICK – Registrar, 10 Prince Edward Street, Saint John, NB E2L 4H5
NEWFOUNDLAND – Registrar, 47 Queens Rd., St. John's, NF A1C 2A7
NOVA SCOTIA – Registrar, Lord Nelson Arcade, Suite 211, 5675 Spring Garden Road, Halifax, NS B3J 1H1
ONTARIO – Registrar, 64 Prince Arthur Ave., Toronto, ON M5R 1B4
PRINCE EDWARD ISLAND – Registrar, 206 Spring Park Rd., Charlottetown, PE C1A 3Y9
QUÉBEC – President-Secretary General, 1440 Ste. Catherine St. West, Suite 914, Montreal, PQ H3G 1S5.
SASKATCHEWAN – Registrar, 211 - 4th Ave. S., Saskatoon, SK S7K 1N1

Medical Council of Canada

In order to take the examination of the Medical Council of Canada, a candidate must present a certificate from the Registrar of a Provincial Medical Board to the effect that he holds qualifications accepted and approved of by the Medical Board of that province. Students must have satisfactorily completed required remedial rotations before writing the L.M.C.C. examinations.

Full information may be obtained by writing to the Registrar, Box 8234, 1867 Alta Vista Drive, Ottawa, ON K1G 3H7.

4.9 GRADUATE TRAINING PROGRAMS IN THE CLINICAL DEPARTMENTS OF THE FACULTY OF MEDICINE

The Faculty of Medicine in conjunction with the affiliated teaching hospitals offers a wide variety of programs leading to McGill Certificates of Intern and Resident Training. Details of the graduate programs available are included in the McGill calendar of Postgraduate Training Programs. Initial inquiries should be addressed to the Associate Dean (Postgraduate Medical Education), Faculty of Medicine.

4.10 GRADUATE STUDIES AND RESEARCH IN THE MEDICAL SCIENCES

Opportunities for graduate work in the basic medical and clinical sciences leading to the degrees of M.Sc. and Ph.D. are offered by many of the Departments of the Faculty of Medicine. By special arrangements these studies can be pursued concurrently with work towards the M.D., C.M. degree. Details of the Programs available are included in the Calendar of Graduate Studies in Medical and Allied Sciences.

Research in relation to clinical disciplines is carried out in the research laboratories at the Montreal Children's Hospital, the Montreal General Hospital, the Royal Victoria Hospital, the Montreal Neurological Institute, L'Institut de Recherche Clinique and the Lady Davis Institute of the Jewish General Hospital. Graduate work in the clinical sciences is supervised by those members of the Departments of Medicine, Surgery, Pediatrics and Obstetrics and Gynecology who are responsible for the direction of research programs. For administrative purposes graduate work in these areas is grouped under the Division of Experimental Medicine, which is a branch of the Department of Medicine and the Division of Experimental Surgery, which is a branch of the Department of Surgery.

Inquiries concerning research training in the medical sciences should be directed to the chairman of the department in which the candidate wishes to receive his or her graduate education. Alternatively, letters may be addressed to: The Associate Dean for Graduate Studies and Research, Faculty of Medicine

5 COURSES OF INSTRUCTION

5.1 ANATOMY

Required Courses

PHASE I

HUMAN ANATOMY 504-131D. The structure of the human body is studied by means of dissection, predissected specimens, lectures, small-group tutorials and audio-visual presentations (closed circuit TV, films, and film loops). The course includes developmental, surface and radiological anatomy and an introduction to clinical anatomy. (Course coordinator: Dr. D.G. Osmond)

Texts: J.T. Aitken, G. Causey, J. Joseph and J.Z. Young, *A Manual of Human Anatomy,* Vols. 1, 2 & 3. 3rd ed. (Churchill Livingstone, 1976); J.C.B. Grant, *An Atlas of Anatomy,* 6th ed. (Williams and Wilkins, 1972); or Carmine D. Clemente, *Anatomy, A Regional Atlas of the Human Body,* (Lea & Febiger, 1975); and one of the following: R.S. Snell, *Clinical Anatomy for Medical Students,* 1st ed. (Little, Brown & Co, 1973); E. Gardner, D.J. Gray and R. O'Rahilly, *Anatomy,* 4th ed. (W.B. Saunders, 1975); W.H. Hollinshead, *Textbook of Anatomy,* 3rd ed. (Hoeber, 1974); R.T. Woodburne, *Essentials of Human Anatomy,* 6th ed. (Oxford University Press, 1978).

EMBRYOLOGY. This course of human developmental anatomy, including normal development and congenital malformations, is integrated with the course in Human Anatomy.

Texts: J. Langman, *Medical Embryology,* 3rd ed. (Williams and Wilkins 1975) or K. Moore, *The Developing Human,* 2nd ed. (Saunders, 1977).

HISTOLOGY 504-121D. The study, by means of the light and electron microscope, of various types of cells and of the structure of various tissues and organs. This course includes laboratory sessions during which sections of a variety of tissues and organs are systematically analyzed. (Course Coordinator: Dr. Y. Clermont)

Texts: A.W. Ham and D.H. Cormack, *Histology,* 8th ed. (Lippincott, 1979); W. Bloom and D.W. Fawcett, *A Textbook of Histology,* 10th ed. (Saunders, 1975); E.J. Reith and M.H. Ross, *Atlas of Descriptive Histology,* 2nd ed. (Harper Row, 1970).

CENTRAL NERVOUS SYSTEM 524-121B. The Department of Anatomy is a major contributor to this Interdisciplinary Course. See Section 5.24.

PHASE III

ANATOMY FOR SURGEONS Practical and applied anatomy, radiological anatomy and embryology are covered in a four-week, full-time course designed for students with a particular interest in Surgery. Course work includes dissection and other laboratory exercises, tutorial-discussion groups, student seminars, problem-solving exercises and clinico-anatomical conferences. (Dr. D.G. Osmond, Dr. P.K. Lala and Staff)

Other Courses

The Department offers a range of courses leading to the Honours B.Sc. in Anatomy and is well equipped for graduate research leading to the M.Sc., M.Sc.A., and Ph.D. degrees. See the *Announcements of the Faculty of Science and the Faculty of Graduate Studies and Research.*

5.2 ANESTHESIA

Anesthesia is based on a sound application of the basic sciences coupled to knowledge of relevant clinical medicine and the care of the critically ill patient.

To assist the student to acquire the core aspects of this discipline recommended for all intending practitioners, the Department of Anesthesia participates in many courses during the three phases of the medical curriculum.

PHASE I

EMERGENCY MEDICINE 524-151A. The Department of Anesthesia is a contributor to this Interdisciplinary course. See Section 5.24. It also contributes to the departmental course in Human Anatomy.

PHASE II

During surgical rotations a series of lecture demonstrations related to pre-operative and postoperative care is given by this department.

BIOLOGY OF DISEASE 524-221N.
INTRODUCTION TO CLINICAL SCIENCES 524-231D.

The Department of Anesthesia contributes to these Interdisciplinary Courses. See Section 5.24.

PHASE III

The Department of Anesthesia participates in several of the Basic Science options including: Physiology and Pharmacology of Pain, Pharmacology of Anesthetic Drugs, Cardiovascular Physiology and Respiratory Physiology.

The Department has recently introduced a Phase III option. The objectives and design of the option are similar to those of the Anesthesia electives. In addition the option will provide senior students with an opportunity to receive training in basic life support and participate in the anesthetist's activities outside of the operating room.

5.3 ARTIFICIAL CELLS AND ORGANS RESEARCH CENTRE

The Research Centre provides opportunity for interdisciplinary research and training in the clinical,

laboratory, and theoretical aspects of artificial cells, artificial kidney, artificial liver, biomaterial, detoxification, enzyme replacement, and others. A course is offered as a fourth year Basic Science Option. Graduate courses are offered in Experimental Medicine. See the *Announcement of the Faculty of Graduate Studies and Research.*

5.4 BIOCHEMISTRY

Required Courses

PHASE I

BIOCHEMISTRY 507-121D. Lectures and clinical demonstrations are given, covering basic biochemistry with reference to disease processes. (Course coordinator: Prof. R.E. MacKenzie)

BIOCHEMISTRY 507-122D. Topics in biochemistry. By special permission of department only. (Course coordinator: Prof. R.E. MacKenzie)

PHASE III

Courses are offered in selected subject areas as part of the Basic Science Options.

Other Courses

The Department offers a range of courses leading to the Honours B.Sc. in Biochemistry and is well-equipped for graduate research leading to the M.Sc., M.Sc.A., and Ph.D. degrees. *See the Announcements of the Faculty of Science and the Faculty of Graduate Studies and Research.*

5.5 BIOMEDICAL ENGINEERING UNIT

Graduate Courses

The Biomedical Engineering Unit provides opportunities for interdisciplinary research and training in collaboration with other departments. Graduate courses are offered for students with engineering or biomedical backgrounds. See *Announcement of the Faculty of Graduate Studies and Research.*

5.6 EPIDEMIOLOGY AND HEALTH

Required Courses

PHASE I

EPIDEMIOLOGY 513-121N. A series of lectures, exercises and small group discussions dealing with the nature and scope of epidemiology with particular attention to its uses in clinical medicine as well as in public health.

MEDICAL PRACTICE AND SOCIAL RESPONSIBILITY (given jointly with the Department of the Humanities and Social Studies in Medicine). In a series of lectures and seminar discussions dealing with the economic and social implications of medical practice with respect to social and personal values and priorities as they relate to sickness and health. This course is a continuation of Epidemiology 513-121N.

PHASE II

BIOLOGY OF DISEASE 524-221N. The Department of Epidemiology and Health participates in this Interdisciplinary Course. See Section 5.24.

Graduate Courses

See the *Announcement of the Faculty of Graduate Studies and Research.*

5.7 FAMILY MEDICINE

PHASES I and II

BEHAVIOURAL SCIENCES 524-161D
INTRODUCTION TO CLINICAL SCIENCES 524-231D
BIOLOGY OF DISEASE 524-221N

The Department of Family Medicine is a contributor to these inter-disciplinary courses. See Section 5.24.

PHASE III
Options

Clinical Options for Phase III students are available at the Family Medicine Teaching Units located at The Montreal General, The Jewish General, St. Mary's, The Queen Elizabeth and The Montreal Children's Hospitals. The student will be given the opportunity to develop clinical skills related to ambulatory care. The student will join a primary care team and will participate in clinical decision making and management. In addition to the exposure to the common medical conditions, the student will be exposed to those aspects of medicine which go beyond the usual disease orientation. Because of the nature of the "one to one" teaching, the number of students accepted at each unit at any one time is limited. Special programs can be arranged for students who have a particular interest in any aspect of primary care.

5.8 HUMANITIES AND SOCIAL STUDIES IN MEDICINE

Required Courses

PHASE I

INTERDISCIPLINARY BEHAVIOURAL SCIENCES 524-161D. This Department co-ordinates and contributes to this Interdisciplinary Course. See Section 5.24.

HEALTH AND THE HEALER IN THE WEST 522-121A. A series of 16 one-and-a-half hour lectures tracing the patterns of health and disease from antiquity to modern times and the development of the medical profession.

MEDICAL PRACTICE AND SOCIAL RESPONSIBILITY (given jointly with the Department of Epidemiology and Health. For description, see that Department's listing.)

PHASE III

MEDICAL ETHICS AND JURISPRUDENCE. This Department coordinates and contributes to this Interdisciplinary Course. See Section 5.24.

Options

The Department offers a wide range of fourth year options in aspects of the social sciences and humanities as they relate to medicine. For details see the Basic Science Options Catalogue.

5.9 MEDICAL PHYSICS UNIT

Graduate Program

The Medical Physics Unit provides opportunities for interdisciplinary research and training in the field of physics applied to biomedicine. An M.Sc. (Applied) in medical radiation physics is offered to students with backgrounds in the physical and life sciences. See *Announcement of the Faculty of Graduate Studies and Research.*

5.10 MEDICINE

Required Courses

PHASES I and II

BEHAVIOURAL SCIENCES 524-161D.
EMERGENCY 524-151A.
BIOLOGY OF DISEASE 524-221N.
INTRODUCTION TO CLINICAL SCIENCES 524-231D.

The Department of Medicine is a contributor to these Interdisciplinary Courses. See Section 5.24.

PHASE II

BLOCK TEACHING IN MEDICINE 526-321A/B. In this twelve week course, the student has the opportunity to build further on the clinical skills developed in the course on Introduction to Clinical Sciences. The ward is the laboratory, wherein the student sees in the patients assigned, the living embodiment of the conditions described in the textbooks. The clinical experience gained from reading and from examination of patients leads to development of confidence and acumen, as well as to the ability to prepare a meaningful written record, which like a laboratory report, is carefully scrutinized by clinical instructors. Regular oral presentations to attending staff form an integral part of the course. Speciality areas of Dermatology, Ophthalmology, Neurology, Radiology, Clinical Pharmacology, Electrocardiology, all contribute to the student's experience.

By the end of the course the student is expected to be capable of handling competently all the duties of a clinical clerk.

PHASE III

The Department of Medicine will be responsible for a variety of offerings in phase III of the medical curriculum.

At this level of training, the student accepts the responsibility for the initial work-up, the completion of the written record, the differential diagnosis (or problem list), the plan of investigation, the progress notes and the discharge summary of each patient assigned. By constant reading, by discussions with his resident team and by case presentations, clinical skills are further developed. In attendance at follow-up clinics, the student learns the results of his therapeutic efforts on the wards. A judicious selection of specialty conferences also assists in this process.

Experimental Medicine

See *Announcement of the Faculty of Graduate Studies and Research.*

5.11 MICROBIOLOGY AND IMMUNOLOGY

Required Courses

PHASE I

MICROBIOLOGY AND IMMUNOLOGY 528-221A. A general introduction to Microbiology is offered in the second year of Phase I. The course deals with the general nature of the various groups of microorganisms: the bacteria, fungi, viruses, and protozoan parasites of medical importance. The lecture subjects include biogenesis of bacterial cell surfaces; physiology, metabolism and genetics of bacteria; antimicrobial agents and chemotherapy; mechanisms of microbial pathogenesis; a systematic survey of the major groups of pathogenic bacteria; epidemiology of infectious diseases; mycology and the opportunistic infections by yeasts and fungi, molecular biology of viruses and viral infections; and helminths and protozoa of the gastrointestinal tract. These topics are integrated to provide an understanding of the biologic and clinical basis of infectious disease. (Course Coordinator: Dr. J.W. Coulton).

PHASE II

BIOLOGY OF DISEASE 524-221N. The Department of Microbiology and Immunology is a major contributor to this Interdisciplinary Course. See Section 5.24.

PHASE III

A series of courses is offered in specialized interest areas as part of the Basic Science Options block.

Other Courses

The Department offers a range of courses leading to the Honours B.Sc. in Microbiology and is well-equipped for graduate research leading to the M.Sc., M.Sc.A. and Ph.D. degrees. See the *Announcements of the Faculty of Science and the Faculty of Graduate Studies and Research.*

5.12 NEUROLOGY AND NEUROSURGERY

Required Courses

PHASE I

CENTRAL NERVOUS SYSTEM 524-121B. An interdisciplinary course organized by the Department of Neurology and Neurosurgery with the collaboration of other departments. See Section 5.24.

CLINICAL EXAMINATION OF THE NERVOUS SYSTEM. Given in the Introduction to Clinical Sciences, an interdisciplinary course. See Section 5.24.

PHASE II

SEMINARS IN CLINICAL NEUROLOGY AND NEUROSURGERY. Given in Block Teaching in Medicine. See Section 5.10.

PATHOPHYSIOLOGY OF NEUROLOGICAL DISORDERS. Given in Biology of Disease, an interdisciplinary course. See Section 5.24.

PHASE III

OPTIONS. Students can select 4 week rotations in Clinical Neurology.

BASIC SCIENCE OPTIONS. Options concerned with basic science and clinical aspects of Neurology are participated in or organized by members of the Department.

Graduate Courses

See *Announcement of the Faculty of Graduate Studies and Research.*

5.13 OBSTETRICS AND GYNECOLOGY

Required Courses

PHASE I

BEHAVIOURAL SCIENCES 524-161D.
EMERGENCY 524-151A

The Department of Obstetrics and Gynecology contributes in part to the course in Behavioural Sciences and Emergency Care. See Interdisciplinary Courses, Section 5.24.

REPRODUCTIVE MEDICINE 534-121A. A twenty-two hour course covering hormonal regulation of gametogenesis, the menstrual cycle, male reproduction, infertility, puberty, pregnancy, parturition, lactation, contraception and ageing is offered and is designed to lay the basis for future clinical studies. (Course Coordinator: Dr. B. Robaire).

PHASE II

OBSTETRICS AND GYNECOLOGY 534-321A/B. An eight week period is allocated to Obstetrics and Gynecology during Phase II. The class is divided into three sections. The course consists of lectures, a supervised approach to clinical obstetrics and gynecology and a core obstetrical and gynecological experience in the wards, clinics and labour and delivery facilities. The course has been developed, using as a base the material taught in Reproductive Medicine in Phase I.

PHASE III

As part of the core curriculum in Phase III, students will spend a four week clerkship on a clinical teaching unit in one of the four centres within the McGill teaching hospital system. This clerkship is designed to enlarge and enrich the Basic Course of Phase II. Under supervision, students take an integral part in the management of patients.

5.14 OPHTHALMOLOGY

Required Courses

PHASE II

INTRODUCTION TO CLINICAL SCIENCES 524-231D. As part of Introduction to Clinical Sciences, the various tests used in routine examination of the eye are demonstrated. Instruction in the use of the ophthalmoscope is emphasized. See Interdisciplinary Courses, Section 5.24.

PRACTICAL CLINICAL OPHTHALMOLOGY. Practical Clinical Ophthalmology including OPHTHALMOSCOPY is taught at the Montreal General, Royal Victoria and Jewish General Hospitals in conjunction with the Medicine rotation.

PHASE III

In Phase III there will be a one-month ophthalmology option. These options will take place at the Montreal General, Royal Victoria, Montreal Children's and Jewish General Hospitals. Each student will function as a clinical clerk in the respective Eye Department.

Texts: Scheie and Albert, *Adler's Textbook of Ophthalmology,* 8th ed. (Saunders, 1969); Vaughan, Asbury, Cook, *General Ophthalmology;* 6th ed. (Lange, 1971); Frank W. Newell, *Ophthalmology,* 2nd ed. (Mosby, 1969).

References: W.S. Duke-Elder, *System of Ophthalmology,* 12 vols. (Kimpton, 1958-72); Hogan and Zimmerman, *Ophthalmic Pathology,* 2nd. ed.

(Saunders, 1962); W.S. Duke-Elder, *Parson's Diseases of the Eye,* 15th ed. (Longman, 1970).

5.15 OTOLARYNGOLOGY

Required Courses

PHASE I

OTOLARYNGOLOGY. An introductory course in Clinical Anatomy pertaining to the ear, nose and throat is presented during Phase I by the Department of Anatomy.

PHASE II

INTRODUCTION TO CLINICAL SCIENCES 524-231D. The Department of Otolaryngology is a contributor to this course, providing instruction in otolaryngological history taking and methods of physical examination.

OTOLARYNGOLOGY. "Block Time" clinical instruction is given to small groups of students as part of the Phase II Surgery rotation. In these sessions didactic lectures are given relating to ear, nose and throat disorders, and the students are given the opportunity to examine hospital patients if the group size permits.

Graduate Courses

See *Announcement of the Faculty of Graduate Studies and Research.*

5.16 PATHOLOGY

Required Courses

PHASE I

GENERAL PATHOLOGY 546-121A. This course is largely a self-preparation program taught in seminars. It covers the principles of general pathology and their relationship to commonly encountered diseases. (Course Coordinator: Dr. D. Kahn)

PHASE II

BIOLOGY OF DISEASE 524-221N. The Department of Pathology is a contributor to this Interdisciplinary Course. See Section 5.24.

COURSE IN APPLIED PATHOLOGY. Weekly clinico-pathological conferences are offered in conjunction with the Medicine rotation. (Course Administrator: Dr. J.B. Richardson)

PHASE III

BASIC SCIENCE OPTIONS are given in special, experimental and general pathology.

Other Courses

The Department is well-equipped for graduate research leading to the M.Sc., M.Sc.A., and Ph.D. degrees. See the *Announcements of the Faculty of Science and the Faculty of Graduate Studies and Research.*

5.17 PEDIATRICS

Required Courses

PHASE I

GROWTH AND DEVELOPMENT 543-221A. This course is designed to illustrate how the main periods of growth and development – intrauterine, infancy, childhood, and adolescence – modify the physiologic and pathologic responses of the pediatric patient. Topics covered include quantitative aspects of growth and development, fluid and electrolyte balance, drug metabolism, caloric control of energy, adaptions to extrauterine life, infant nutrition, psychological and neurological development, development of specific organ systems, sexual development, and adolescence. The course consists of lectures, assigned problems and small group discussions. (Course Co-ordinator: Dr. David Rosenblatt)

PHASE III

PEDIATRICS 543-400A/B. Clerkship in Pediatrics as a member of a clinical service, provides the opportunity for experience in the management of pediatric problems under supervision. The clerkship includes ward and ambulatory rotations at the Montreal Children's Hospital and newborn experience at either the Jewish General Hospital or the Royal Victoria Hospital. The clerks participate in a series of core-material conferences in addition to the regularly scheduled educational program of the hospital. (Coordinator: Dr. Wendy MacDonald)

5.18 PHARMACOLOGY AND THERAPEUTICS

The program of instruction in Pharmacology and Therapeutics is designed to provide a systematic coverage of the pharmacodynamics of the more important groups of drugs, the factors that control and modify their effects and the basis for selection and use of drugs in the treatment of disease.

Required Courses

PHASE I

PHARMACOLOGY AND THERAPEUTICS 549-221A. An introductory course concerned primarily with the pharmacodynamics, pharmacokinetics and toxicity of those drugs most frequently encountered in clinical practice.

PHASE II

PHARMACOLOGY AND THERAPEUTICS. The Department contributes to the Biology of Disease course emphasizing the pharmacological basis for the selection of drugs and the use of these drugs in the treatment of disease.

PHASE III

PHARMACOLOGY AND THERAPEUTICS. A variety of seminar courses covering selected areas of Pharmacology is offered as part of the Basic Science Options Program. Students choose one or more of these courses in areas of their special interest. The seminars are intended to be a look in depth into special subjects rather than broad general reviews.

Other Courses

The Department offers a course in pharmacology to students registered in the B.Sc. programs, and is well equipped for graduate research leading to the M.Sc., and Ph.D. degrees. See the *Announcements of the Faculty of Science and the Faculty of Graduate Studies and Research.*

5.19 PHYSIOLOGY

Required Courses

PHASE I

MEDICAL PHYSIOLOGY 552-121D Lectures and Laboratories. An advanced course on the functioning of body systems. Emphasis is on aspects of system physiology relevant to disease mechanisms and clinical function testing. Topics include the physiology of blood and body fluids, circulation, central and peripheral nervous system, respiration, excretion, digestion, immunity and endocrinology. (Course Coordinator: Dr. B. Cooper)

CENTRAL NERVOUS SYSTEM 524-121B.

The Department of Physiology contributes to these Interdisciplinary Courses. See Section 5.24.

PHASE III

A series of courses are offered in specialized interest areas as part of the Basic Science Options block.

Other Courses

The Department offers a range of courses leading to the Honours B.Sc. in Physiology and is well equipped for graduate research leading to the M.Sc., M.Sc.A., and Ph.D. degrees. See the *Announcements of the Faculty of Science and the Faculty of Graduate Studies and Research.*

5.20 PSYCHIATRY

Required Courses

PHASE I

BEHAVIOURAL SCIENCE 524-161D. The Department of Psychiatry is a major contributor to this Interdisciplinary Course. See Section 5.24.

PHASE II

BIOLOGY OF DISEASE 529-221N. The Department of Psychiatry contributes to this Interdisciplinary course. See Section 5.24.

PHASE III

PSYCHIATRY 555-400A/B. Eight-week block training to acquaint all students (Core program) with the examination of patients and understanding of some of the major factors involved in abnormal behaviour. Diagnostic procedures, psychotherapeutic and physical methods of treatment will be among the aspects covered. Students will be provided with tutors on a group basis and will also have an opportunity to become conversant with certain more specialized areas of the field of Psychiatry. An attempt will be made to provide a comprehensive exposure to current stheoretical models and treatment approaches in psychiatry, to indicate the relevance of certain concepts and attitudes to non-psychiatric medical practice, and to supply well-supervised clinical experience which is patient-oriented and responsibility-centered. (Course Coordinator: Dr. R.A. Ramsay)

PSYCHIATRY CLERK OPTIONS. Students with an interest in Psychiatry may take a 4-week rotation with intensive clinical experience in the areas of Psychosocial Medicine, Consultation Psychiatry, Emergency Psychiatry and Brief Psychotherapy.

Graduate Courses

For information regarding the Diploma Course in Psychiatry and courses leading to the M.Sc. Degree in Psychiatry, see the *Announcement of the Faculty of Graduate Studies and Research.*

5.21 RADIATION ONCOLOGY

Required Courses

PHASES I AND II

INTRODUCTION TO RADIATION ONCOLOGY. Includes the basic principles and applications of Radiation Physics, Radiobiology and Radiopathology of conditions treated by means of ionizing radiation. Given in conjunction with Pathology and Biology of Disease courses.

PHASE II

CLINICAL RADIATION ONCOLOGY. Teaching is integrated with the clinical rotations.

PHASE III

CLINICAL RADIATION ONCOLOGY. Continuation of the clinical program initiated in Phase II.

Graduate Courses

Diploma in Radiation Oncology. See *Announcement of the Faculty of Graduate Studies and Research.*

5.22 DIAGNOSTIC RADIOLOGY

Required Courses

PHASE I

NORMAL ROENTGEN ANATOMY 504-131D. In co-operation with the Department of Anatomy.

ROENTGEN DEMONSTRATIONS OF PHYSIOLOGY 552-121D. In co-operation with the Department of Physiology.

RADIOLOGY. An option course offered to first year students. The course will be orientated towards anatomical-radiological correlation. Some of the lectures will inform the student about the use of radiological procedures in diagnosing diseases. The lectures will be given by experts in different fields of Diagnostic Radiology (i.e., lungs, heart, gastrointestinal diseases), Ultrasound and Nuclear Medicine (diagnostic use of radioisotopes).

PHASE II

BIOLOGY OF DISEASE 524-221N. The Department of Diagnostic Radiology is a contributor to this Interdisciplinary Course. See Section 5.24.

SEMINARS IN DIAGNOSTIC RADIOLOGY. These are held weekly for students during their "block time" in Medicine and Surgery.

PHASE III

DIAGNOSTIC RADIOLOGY OPTION. During Phase III students may take a 4-week rotation in a Diagnostic Radiology program emphasizing diseases of clinical import and the role of Radiology in medicine. In addition, all students *during their "clinical clerkship"* may attend regular conferences in the Department of Diagnostic Radiology.

5.23 SURGERY

Required Courses

PHASE I

BEHAVIOURAL SCIENCE 524-161D.
EMERGENCY MEDICINE 524-151A.

The Department of Surgery is a contributor to these Interdisciplinary Courses. See Section 5.24.

PHASE II

BIOLOGY OF DISEASE 524-221N.
INTRODUCTION TO CLINICAL SCIENCES 524-231D.

The Department of Surgery is a contributor to these Interdisciplinary Courses. See Section 5.24.

SURGERY 564-321A/B. During the surgical rotation, students are provided with a variety of learning experiences, so that they may learn the principles of surgery. Much of the teaching is didactic either in the Montreal General Hospital or the Royal Victoria Hospital. Students are also assigned to a surgical service where they may write case reports, act as a dresser and assist at operations. The learning experiences include lectures, case presentations, seminars, tutorial sessions, special core curriculum conferences, bedside teaching, participation in regular service and ward rounds, visits to the Emergency Department and clinical pathological conferences. (Course Co-ordinators: Drs. E.D. Monaghan and L. Ogilvy)

PHASE III

In Phase III of the curriculum, students spend eight weeks as clinical clerks in Surgery. The emphasis is on the practice of Surgery. Four weeks are spent in General Surgery and CVT and, during the other half of the rotation, clinical clerks divide their time, at two weeks each, in the following Surgical disciplines: Urology, Plastic Surgery, Orthopedic Surgery, Trauma, Pediatric Surgery, and Neurosurgery. For these purposes, the students will be sent either to the Montreal General Hospital or to the Royal Victoria Hospital and to the Montreal Children's Hospital for Pediatric Surgery.

Surgical Diseases of Children

Instruction in the Surgical Diseases of Children is given during the Pediatrics rotation.

Orthopedic Surgery

Principles of physical diagnosis of the musculoskeletal system are taught during the course on Introduction to Clinical Sciences in Phases I and II.

The principles of Orthopedic Surgery are covered during the course on Surgery in Phase II. An attempt is made to outline broadly the content of adult Orthopedics, children's Orthopedics and fractures.

Phase III clinical clerks in Surgery will generally spend two weeks in Orthopedic Surgery.

Urology

Lectures are given in Phase II during the Surgery rotation. Subject coverage includes symptoms and signs of significance, congenital anomalies, obstructive uropathy, calculous disease, genito-urinary infections, abnormalities of the external genitalia, patho-physiology of mucturition and neoplastic disease of the genito-urinary tract.

Surgical Research

See *Announcement of the Faculty of Graduate Studies and Research.*

5.24 INTERDISCIPLINARY COURSES

Required Courses

PHASE I

BEHAVIOURAL SCIENCES 524-161D. This course is designed to familiarize students with the following issues: the inter-relationship of psychosocial and biological variables in health and disease; the normal developmental cycle; the impact of disease or disability on an individual's lifestyle, self-image, and family; the relevance of the foregoing information for a practising physician. The topic of communication and interviewing skills is also covered. There are 30 lecture sessions in which theoretical information is supplemented with clinical examples and presentation of patients. The student body is divided into groups to provide an opportunity to meet informally and discuss related issues with clinicians. In addition, small group meetings focus on interviewing and require active student participation. Lectures and demonstrations – 79 hours. (Course Coordinator: Prof. Margaret Lock)

CENTRAL NERVOUS SYSTEM 524-121B. This course consists of an integrated series of lectures, laboratory classes and clinical demonstrations having to do with anatomical, physiological, biochemical and behavioural aspects of nervous system organization which have particular importance in neurological medicine, thereby preparing the student for the clinical neurology teaching that will be given in the later phases of the medical curriculum. (Course Coordinator: Dr. Donald Lawrence)

EMERGENCY MEDICINE 524-151A. This course consists of a series of twenty-two sessions given in the first year providing an introduction to the principles of emergency medicine. Emphasis is placed on pre-hospital emergency care of the acutely ill and injured. There are practical demonstrations in Cardio-Pulmonary Resuscitation. The required text is *"Emergency Care and Transportation of the Sick and Injured"*, by the Committee on Injuries – American Academy of Orthopaedic Surgeons. (Course Coordinator: Dr. M. Dupré)

HUMAN GENETICS 524-131B. This course is designed to show how recent advances in human genetics affect current medical practice. Topics include mendelian genetics, chromosomal disorders, population genetics, prenatal diagnosis, genetic counselling and treatment of genetic disease. The course consists of lectures and presentation of patients. (Course Coordinator: Dr. David Rosenblatt)

PHASE I and II

INTRODUCTION TO CLINICAL SCIENCES 524-231D. The course objective is to provide students the opportunity to make their first meaningful contact with patients. In so doing they learn, under supervision, how to take a history, conduct an examination of each of the body systems, create problem lists and arrive at reasonable diagnoses. This course, beginning in September of Year II and completed by mid-January, is the direct responsibility of the Department of Medicine, which is assisted in the teaching and supervision by the Departments of Surgery and Pediatrics. The specialty areas of Neurology, Anesthesia, Orthopedics, Urology, Plastic Surgery, Otolaryngology, Ophthalmology and Dermatology also have an input. At the end of the course there is an assessment of individual progress measured against the stated course objectives. (Course Coordinator: Dr. David Hollomby)

PHASE II

BIOLOGY OF DISEASE 524-221N. An integrated course taught under the auspices of Epidemiology and Health, Microbiology and Immunology, Pathology and Pharmacology, which utilizes teachers from the entire Medical Faculty. The emphasis of the course is on the pathophysiology of common disease states, and an attempt is made to present a balanced approach to major diseases stressing factors that will influence prevention, control and rational treatment. The course is held at the McIntyre Medical Sciences Building. Small group sessions are held at the Royal Victoria Hospital and the Montreal General Hospital where they are integrated with the students' medical and surgical rotations. (Course Coordinator: Dr. A. Tenenhouse)

PHASE III

MEDICAL ETHICS AND JURISPRUDENCE. A course required of all students in Phase III. It is an integrated series of lectures planned to include ample time for discussion. The sessions are given by members of the Faculties of Law and Medicine, and other invited guests. The course deals with the ethical issues and conflicts encountered in medical practice and the legal requirements that the profession and society ask of physicians. (Coordinator: Dr. David Roy)

5.25 ELECTIVE COURSES

Major electives are offered by the following Departments: Anatomy, Anesthesia. Biochemistry, Biomedical Engineering, Epidemiology and Health, Family Medicine, Humanities and Social Studies in Medicine, Medicine, Microbiology and Immunology, Neurology and Neurosurgery, Obstetrics and Gynecology, Ophthalmology, Otolaryngology, Pathology, Pediatrics, Pharmacology and Therapeutics, Physiology, Psychiatry, Diagnostic Radiology, Radiation Oncology and Surgery during Phase II and III. Details are published in the "Elective Calendar" and further information can be obtained from the Coordinator (Elective Program), General Office, Faculty of Medicine.

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